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WAVE INFORMATION STUDIES
OF US COASTLINES

WIS REPORT 26

HINDCAST WAVE INFORMATION
FOR THE GREAT LAKES: LAKE HURON

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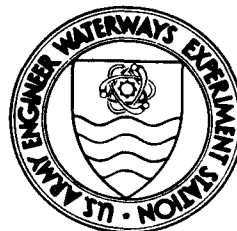
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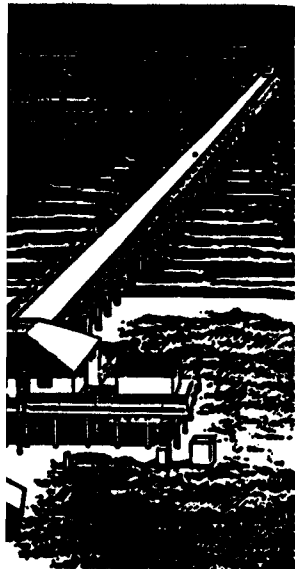


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PREFACE

The Wave Information Study (WIS) was authorized in December 1976 by Headquarters, US Army Corps of Engineers (HQUSACE). The study is part of the Field Data Collection Program, which is managed by the Coastal Engineering Research Center (CERC), US Army Engineer Waterways Experiment Station (WES). The HQUSACE Technical Monitors for the Field Data Collection Program are Messrs. John H. Lockhart, Jr.; John G. Housley; James E. Crews; and Robert H. Campbell. Mr. J. Michael Hemsley was the former Program Manager, Ms. Carolyn M. Holmes is the present Program Manager, and Dr. Jon M. Hubertz is the WIS Project Leader.

This report is one of five that present the results of wave hindcasts for the Great Lakes. The Great Lakes hindcasts were performed by Dr. Hubertz, Mr. David B. Driver, and Ms. Robin D. Reinhard, assisted by Mr. Alan Cialone, Ms. Robin Hoban, and Mr. Donald E. Eicher, all of the Coastal Oceanography Branch (COB), Research Division (RD), CERC.

The study was conducted under the direct supervision of Dr. Edward F. Thompson, former Chief, COB; Dr. Hubertz, Acting Chief, COB; Dr. Martin C. Miller, Chief, COB; and Mr. H. Lee Butler, Chief, RD, and under the general supervision of Mr. Charles C. Calhoun, Jr., Assistant Chief, CERC, and Dr. James R. Houston, Chief, CERC. The word processing was by Ms. M. Jane Stauble, COB, and Ms. J. Holley Messing, RD.

COL Larry B. Fulton, EN, is the Commander and Director of WES. Dr. Robert W. Whalin is Technical Director.

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CONVERSION FACTORS, NON-SI TO SI (METRIC) UNITS OF MEASUREMENT

Non-SI units of measurement used in this report can be converted to SI (metric) units as follows:

<u>Multiply</u>	<u>By</u>	<u>To Obtain</u>
degrees (angle)	0.01745329	radians
knots (international)	0.5144444	meters
miles (US statute)	1.609347	kilometers

HINDCAST WAVE INFORMATION FOR THE GREAT LAKES:
LAKE HURON

PART I: INTRODUCTION

1. The primary purpose of this study is to provide an accurate and comprehensive database of information descriptive of the long-term wave climate for the Great Lakes. The goal is to accurately represent mean values of wave parameters such as height, period, and direction. At any station, the hindcast values may at times differ from measured values, but this difference will generally be small and, in the mean, approach zero. It is also expected that the extreme values at any station will accurately represent actual conditions and provide reliable design wave information. This report describes the selection of a grid and hindcast sites, methods used to process and prepare input wind fields, numerical model calibration and verification, and production of a 32-year (1956-1987) hindcast. Information of this nature is essential to the efforts currently being undertaken by both US and Canadian interests in developing workable shoreline management guidelines and navigational aids. Projects benefiting from such information include dredging and dredge disposal, beach nourishment and erosion studies, and the design of coastal structures such as jetties, harbors, revetments, and breakwaters, as well as local projects for improving recreation safety.

2. Prior to 1979, measurements of wave data on the Great Lakes were scarce and quite short in duration. The available data were generally associated with site-specific studies and were usually located nearshore in shallow water. Very few data are available from wave gages, and many of these are in an unanalyzed, analog form. Visual wave observations are available from US Coast Guard stations at several shore locations and from commercial ships for waves offshore.

3. In 1979 the National Data Buoy Center of the National Oceanic and Atmospheric Administration (NOAA) extended their wave measurement program to the Great Lakes, using large, boat-shaped buoys equipped with anemometers, air-water temperature sensors, and vertical accelerometers for wave height measurements. The purpose of this program was to provide a comprehensive set

of climatological data for a long period of record from fixed locations in the near coastal and deep ocean areas adjacent to the US mainland. The first two buoys were installed in northern Lake Michigan and central Lake Superior, respectively. During 1980 and 1981, six additional buoys were deployed: two more in Lake Superior, one in southern Lake Michigan, two in Lake Huron, and one in western Lake Erie. Lake Ontario remains without a buoy.

4. These buoys provide the best long-term wave measurements available for the Great Lakes. Unfortunately, the buoys are removed during the heavy icing season of November to March and are, therefore, subject to miss the winter storms that produce the largest and most destructive waves. Figure 1 shows the location of each of these buoys. With the exception of Lake Ontario, wind and wave information from these buoys were used for calibration and verification of both input wind fields and the numerical wave model.

Previous Studies

5. Prior to this effort, numerical hindcasts of the Great Lakes were conducted by Resio and Vincent (1976a, b, and c; 1977a and b; 1978), hereafter referred to as RV, for the US Army Corps of Engineers (COE) and by a number of Canadian firms for the Ontario Ministry of Natural Resources (1988a, b, and c). The RV study established the hindcast procedure for the Great Lakes that the present study employs, including guidance for the use of measured overland winds to estimate overlake winds. This hindcast was also the first attempt within the COE to use a numerical scheme for wave calculations instead of the standard empirical/analytical approach, such as the Sverdrup-Munk-Bretschneider (SMB) method (Shore Protection Manual (SPM) 1984). The major differences between RV and the present study are (a) the length of the hindcast period and events hindcast; RV used up to a 69-year record (1907-1975) but only hindcast "storm events," whereas the present study uses a complete 32-year wind record (1956-1987); (b) the present study uses more recent wind information, which, because of improved technology, is of better quality than some of the pre-1950 data; (c) the present study considers the effects of ice cover, whereas the RV study did not, although RV did provide guidance to include ice effects in a probabilistic sense; (d) the present study reflects advances in understanding of the physics involved in wave generation,

propagation, and dissipation and employs current techniques to model these processes. The RV classified "storm events" as days with average wind velocities over the lake of 25 knots* or above, as recorded on the ships' anemometers. Results from RV were tabulated as return period statistics for use in design criteria at hindcast sites along the US coastline. The time series of wind and wave information was not archived.

6. The Canadian hindcasts were developed as part of a Shoreline Management Plan designed to fill the need for a wave climate database for the Great Lakes in Ontario. The approach was similar to that used in the present study. The overlake winds were estimated from several land-based meteorological stations (as per RV), and the presence of ice cover was included. The criterion employed to determine the extent of ice cover is similar to that used for the present study. The Canadian hindcasts produced a wave climate database for stations along the Canadian shoreline that were continuous in time. The time interval of each hindcast varies from 1971-1985 for Lake Erie, 1964-1983 for Lake Ontario, 1962-1970 for Lake Superior, and 1953-1987 for Lake Huron. Lake Michigan was not hindcast. The grid size and number of archived stations are specific for each lake and were selected to provide an accurate representation over the lake with the minimum number of sites. Because of damage during previous storms, shoreline erosion, and existing and proposed developments, these stations were considered priority sites by the Ministry of Natural Resources and Conservation Authority.

Procedure

7. The selection of a grid was based on the grids used previously in the RV study to allow comparison to the present study. A 10-statute-mile square grid covering the entire lake was generated. Most of the nearshore and a few midlake grid points were designated as stations at which all model data would be saved (i.e. save stations) (Figure 2). Based on this grid, a land-water boundary matrix was established (0 = land, 1 = water) for computational purposes. Deep water was assumed across the entire grid; therefore, no

* A table of factors for converting non-SI units of measurement to SI (metric) units is presented on page 3.

bathymetry was input. The measured winds from land stations surrounding each lake were converted to an elevation of 10 m after being adjusted for the effects of air-water temperature differences and the land-water interface. These adjustments are discussed in more detail in the following section. The winds were interpolated over the grid at 3-hr intervals.

8. Measured wave data were obtained from NOAA buoys. Prior to the development of the full 32-year data set, the model was run for selected periods of time (corresponding to available NOAA data), and the results were compared with measured data. Wind speeds were then modified, as necessary, as part of the model calibration process. Verification runs were then made for the entire set of available buoy data. Procedures for and results of model calibration and verification are discussed in more detail in subsequent sections.

9. Two data files were created and saved. One, referred to as the parameter file, contains a single record every 3 hr for 32 years for each station. This record includes station identification and location, wave height, peak spectral period, and average wave direction. The second file contains similar information in addition to the full two-dimensional (frequency and direction) distribution of spectral wave energy. The results of various parameter file analysis, including calculation of percent occurrence tables, mean and maximum monthly values, and return period statistics, are presented for the designated save stations. The location and depth of each station is given in Table 1.

PART II: DETERMINATION OF WIND FIELDS

10. The results of any numerical wave hindcast study depend heavily on the quality of the winds used to drive the model and are, therefore, only as good as the input data. In addition to the quality of the wind data, the length of the historical wind record is an important parameter. The longer the period of time that a particular parameter has been observed, the better are any estimates of statistical properties of that population. The only three sources of data with sufficient length of record for the present hindcast are (a) pressure observations at land stations, (b) synoptic weather maps derived from pressure observations, and (c) wind observations at land stations and on ships.

Source

11. The calculation of winds from pressure observations or fields requires the use of a planetary boundary layer model and some simplifying assumptions. Therefore, it was felt that a more straightforward approach should be used. Ship observations were not included because of the inconsistent nature of these measurements in space and time. The incorporation of this information was seen as too time consuming for the present long-term study. Ship wind speeds were used by RV since they addressed only "storm events," which by nature are short in duration. The wind directions recorded by ships were not used in RV since they were often inconsistent.

12. With these factors in mind, estimation of the wind fields over each of the Great Lakes was accomplished by using the most reliable, long-term, continuous wind observations that were available from both US and Canadian coastal land stations. This approach is limited by the distribution of measurement sites around the lakes, but it is considered to be the best alternative. On the US side, these data generally came from National Weather Service stations located at larger airports near the lakes. The Canadian data, supplied by the Canadian Climate Centre (CCC), came from airports and various other CCC weather stations around the lakes. Figure 3 shows the location of the stations used, and Table 2 provides the period of record available for each station.

13. The wind data, commonly measured and recorded at hourly intervals, were sampled every 3 hr beginning at 00:00 Greenwich Mean Time (GMT) on 1 January 1956. A 3-hr interval was chosen because of the lack of continuous hourly data. Gaps of short duration were interpolated to provide a continuous time series. All data were then corrected to an elevation of 20 m using the standard 1/7th power law for the wind speed profile (Davenport 1960). This approximation, given by

$$U_{20} = U_z \left(\frac{20}{z} \right)^{\frac{1}{7}} \quad (1)$$

estimates the wind speed U_{20} at 20 m from the observed wind speed U_z at elevation z .

Corrections

14. Corrections for the air-water temperature difference and for the difference in frictional effects between land and water were then applied. These corrections were based on two empirical curves developed by RV (1976c), one relating the overland-overlake wind speed ratio to the air-water temperature difference and one relating overlake wind speed (U_w) to overland wind speed (U_l). The approximation of these curves is given by the following formula derived by Schwab and Morton (1984):

$$U_w = U_l \left(1.2 + \frac{1.85}{U_l} \right) \left[1.0 - \frac{\Delta T}{|\Delta T|} \left(\frac{|\Delta T|}{1920} \right)^{\frac{1}{3}} \right] \quad (2)$$

where U_l is given in meters per second at an elevation of 20 m and the air-water temperature difference ΔT is measured in degrees Celsius. Air-water temperature differences derived from ship observations and classified as a function of month and 10-deg direction intervals (Table 3) were obtained from RV (1976c).

15. Overlake winds were then estimated from the measured overland winds using a weighted inverse distance interpolation routine with an r^{-3} spatial weighting function, where r is the distance from the land station to the overwater grid point of interest. The final correction was an additional

application of the 1/7th power law to correct the winds to an elevation of 10 m for input into the wave model.

PART III: WAVE MODEL

16. The wave model used in this study, DWAVE, was developed by Dr. Donald T. Resio of Offshore and Coastal Technologies, Inc. It is described in Resio and Perrie (1989) and in an unpublished contractor's report* available from the Wave Information Study (WIS) Project Office.

17. DWAVE is a FORTRAN computer code that simulates wave growth, dissipation, and propagation in deep water. The modeled spectra are represented as fully two-dimensional in discretized frequency and direction bands. Propagation effects and source-sink mechanisms are computed in terms of variations of energy levels in each of these frequency-direction elements. All wave parameters, such as wave height, frequency of the spectral peak, and mean wave direction, are computed from these discrete elements. Figure 4 shows how energy is partitioned in a directional spectrum within DWAVE. As seen there, each frequency-direction increment is envisioned as a "bin," and these "bins" are centered on specified frequencies and directions.

18. The physics embodied in DWAVE represents the state of the art in present understanding of wave generation. It is the first discrete-spectral model to be based on an f^{-4} equilibrium range formulation, as supported by almost all past field experiments (Toba 1978, Forristall 1981, Kahma 1981, Kitaigorodskii 1983). As such, it represents the only model (including the third-generation models under development in Europe) that is consistent with energy conservation in the equilibrium range, as calculable from the complete or reduced Boltzmann integrals. The fetch-growth characteristics of DWAVE are similar to the Joint North Sea Wave Project (JONSWAP) relationships, i.e., wave energy increases linearly with fetch; and the duration-growth characteristics are roughly similar to those of Resio (1981) and the US Navy's Spectral Ocean Wave Model (SOWM).

19. DWAVE will run on computers ranging from desktop microcomputers to supercomputers. Many years of model development have led to an understanding of the "trade-offs" between avoiding unnecessary tedious calculations and maintaining numerical accuracy.

* D. T. Resio and D. P. Bach, 1989, "Program DWAVE: Global/Regional, Deep-Water Wave Model User's Manual," Offshore and Coastal Technologies, Inc., Vicksburg, MS.

Theoretical Considerations

20. The model is based on the assumption that the wave field on a water body can be represented by a distribution of energy in discrete frequency and direction elements as schematized in Figure 4. The change in energy in each element as a function of time at all specified points on the water body is determined by the radiative transfer equation

$$\frac{\partial E_2(f, \theta)}{\partial t} = \bar{c}_g(f, \theta) \cdot \nabla \bar{E}_2(f, \theta) + \sum_{k=1}^n S_k(f, \theta) \quad (3)$$

where E_2 is the two-dimensional spectral energy at frequency f and direction θ . The group velocity is c_g , and S_k represents a number of functions that act as sources or sinks for energy. This equation is solved at each point in a square grid on the water body for successive intervals in time. The wind source term supplies energy to the sea surface and allows the wave spectrum to grow, and the wave-wave interaction term controls development of the spectrum.

21. Hasselmann (1962) derived an equation for four resonantly interacting waves, which he showed to be the lowest order interaction capable of achieving a net transfer of energy among spectral components in a statistically homogeneous wave field. Although Hasselmann et al. (1973, 1976) argued that these wave-wave interactions controlled the shape of a spectrum, they did not pursue the spectral balance responsible for this tendency. Tracy and Resio (1982) showed that a number of exact geometric similarities were exhibited within the collision integrals for wave-wave interactions; however, they made use of these similarities only to improve the efficiency of numerical integration for the full integral. Only recently Kitaigorodskii (1983) demonstrated that inherent in the collision integrals for wave-wave interactions are geometric constraints on the gradient of energy density in the equilibrium range of a spectrum. Kitaigorodskii pointed out the analogue between this "equilibrium" range behavior and the Komolgoroff range in turbulence. Kitaigorodskii's derivation is based solely on dimensional

arguments and does not illustrate some of the important geometric scaling aspects inherent in the collision integral. A different derivation, one which follows the scaling aspects of this integral, is offered by Resio (1981).

22. This derivation implies that an equilibrium range in action density in a deepwater wave spectrum is representable as

$$n(k) = B'k^{-4} \quad (4)$$

where B' is a constant with units time^{-1} and k is the wave number. Equation 4 is equivalent to that derived by Kitaigorodskii (1983), although the two methods of derivation differ significantly. Figure 5, from numerical calculations using the full collision integral, shows that, in deep water, an equilibrium range with this form does come very close to a constant energy flux equilibrium form. Flux divergence, which would produce steeper equilibrium range slopes, will occur for values of the power of k less than 4; and flux convergence, which would produce shallower equilibrium range slopes, will occur for values of the power of k greater than 4. Thus, there is a strong shape restoring-preserving tendency inherent in these energy fluxes due to wave-wave interactions.

Wave Propagation

23. In DWAVE, each frequency-direction element in the directional wave spectrum is propagated independently, according to an upstream differencing method. This technique is presently employed in the latest third-generation models in Europe. Its advantages in terms of stability, execution time, and set-up simplicity outweigh any gains by using higher order propagation schemes. During the development phase of DWAVE, several higher order propagation schemes were tested in actual wave simulations. Typical differences in spectral energy contents and total energies, under these "real-world" conditions, were typically only a few percent or less.

24. A latitude-longitude grid is used in DWAVE. Propagation along meridians (or components of propagation along meridians) is the equivalent of propagation along great circles. Consequently, there is no curvature away from a straight-line propagation along these axes; however,

divergence/convergence effects must be incorporated for meridional propagation. For propagation along latitudes (parallels), there is no divergence/convergence; however, there is an angular curvature that must be considered.

Numerical Simulation of Wave Growth and Dissipation

25. The proper simulation of the physics of energy transfer into and out of each element in the directional spectrum is essential to accurate wave modeling. In DWAVE, the simulated sources and sinks are as follows:

- a. Energy transfer from the atmosphere to the wave field.
- b. Energy transfer among wave frequencies (wave-wave interactions).
- c. Energy transfer from waves to the atmosphere (swell propagating against the wind).
- d. Energy losses due to wave breaking in deep water.

Wind Input

26. The energy input into the spectrum is given by

$$\frac{\partial E_2(f, \theta)}{\partial t} = B(f, \theta) E_2(f, \theta) \quad (5)$$

where $B(f, \theta)$ is a function with units of time^{-1} given by

$$B(f, \theta) = z \left(\frac{uf_m}{g} \right) f \cos(\theta_{wv} - \theta_{wd}) \quad (6)$$

where

- f - frequency
- z - dimensionless constant
- u - wind speed
- f_m - peak frequency
- g - acceleration of gravity
- θ_{wv} - wave direction
- θ_{wd} - wind direction

The constant z is composed of the drag coefficient, the ratio of air density to water density, and an empirical constant and should have a value between 0.16 and 0.24. The value used in this study is 0.2.

Description of Wave Growth and the Behavior
of the Wave-Wave Interaction Source Term

27. From Hasselmann et al. (1973), Mitsuyasu (1968), and others, the following is obtained

$$\hat{E}_0 = J\hat{x} \quad (7)$$

where J is a dimensionless empirical constant. Nondimensional values of energy \hat{E}_0 and fetch \hat{x} are given by

$$\hat{E}_0 = E_0 \frac{g^2}{u_*^4} \quad (8)$$

and

$$\hat{x} = \frac{gx}{u_*^2} \quad (9)$$

where

E_0 = total wave energy

u_* = friction velocity

x = fetch

The constant J ranges in value from 1.0×10^{-4} to 1.5×10^{-4} . The value used in this study is 1.28×10^{-4} . Substituting the definitions of \hat{E}_0 and \hat{x} into Equation 7 and taking a derivative with respect to distance for the equation, the following is obtained:

$$\frac{\partial E_0}{\partial x} = J \frac{u_*^2}{g} \quad (10)$$

Thus, Equation 10 indicates that the rate of gain of energy with fetch is independent of fetch. Converting to a time rate of growth,

$$\frac{\partial E_0}{\partial t} = \langle c_g \rangle J \frac{u_*^2}{g} \quad (11)$$

where $\langle c_g \rangle$ is an average group velocity such that

$$\langle c_g \rangle = \frac{1}{E_0} \int_0^\infty \int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} \bar{E}_2(f, \theta) \cdot \bar{c}_g d\theta df \quad (12)$$

If a parameter β_1 is defined such that

$$\beta_1 c_{gm} = \langle c_g \rangle \quad (13)$$

where c_{gm} is the group velocity of waves at the spectral peak (i.e., $c_g(f_m)$ where f_m is the frequency of the spectral peak), Equation 11 becomes

$$\frac{\partial E_0}{\partial t} = \beta_1 c_{gm} J \frac{u_*^2}{g} \quad (14)$$

In discrete spectral models, the radiative transfer equation,

$$\frac{\partial E_2(f, \theta)}{\partial t} = \bar{c}_g(f, \theta) \cdot \nabla \bar{E}_2(f, \theta) + \sum_{k=1}^n S_k(f, \theta) \quad (15)$$

where $S_k(f, \theta)$ represents energy input or loss at a spectral element with frequency f and direction θ due to the k^{th} source term, is solved at every time step for each water point in the computational grid. In order to estimate important spectral balances and energy exchanges due to nonlinear wave-wave interactions, it is essential to know the location of the spectral peak. In the previous WIS model, as described by Resio (1981), the nonlinear wave-wave interaction source term is treated explicitly. A problem with this approach is that the location of f_m actually evolves during each time step and an explicit treatment which holds it constant over a time step can lead to significant underprediction of wave period.

28. To obtain an implicit representation for nonlinear source terms, begin by expressing the total energy in a spectrum in terms of a set of spectral parameters in a manner consistent with Equation 2.6 of Resio and Perrie (1989),

$$E_0 = \frac{1}{3} \lambda \alpha g (u_*^2 c_m)^{1/3} f_m^{-3} \quad (16)$$

where λ is a constant of proportionality and ranges in value from 1.5 to 2.0 and c_m is the phase velocity of the spectral peak. The value used in this study is 1.75. The constant α ranges in value from 0.035 to 0.05. The value used in this study is 0.045. This relationship is appropriate for self-similar spectra with an f^{-4} equilibrium range. As discussed by Resio and Perrie (1989), spectra of this type can be written in a fashion analogous to the form of the JONSWAP spectrum, i.e.

$$E(f) = \alpha \frac{(u_*^2 c_m)^{1/3} g}{(2\pi)^3} f^{-4} \Psi\left(\frac{f}{f_m}\right) \quad (17)$$

where

$$\Psi\left(\frac{f}{f_m}\right) = \gamma \exp\left[-\frac{(f-f_m)^2}{2(\sigma f_m)^2}\right] \quad \text{for } f \geq f_m \quad (18)$$

or

$$\Psi\left(\frac{f}{f_m}\right) = E(f_m) \exp\left[1 - \left(\frac{f}{f_m}\right)^4\right] \quad \text{for } f < f_m \quad (19)$$

and γ and σ are the JONSWAP coefficients. From the form of Equations 17, 18, and 19, it is apparent that the parameter λ is dependent on γ and σ in a fairly nonlinear fashion; however, the actual variability for reasonable values of γ and σ constrain λ to be somewhere between 1.5 and 2.0, so the net effect of variations in γ and σ is not too large. In DWAVE the value of λ is set at a constant 1.76.

29. Returning to Equation 16 and making use of the deepwater definitions of phase and group velocities, i.e.

$$c = \frac{g}{2\pi f} \quad ; \quad c_g = \frac{g}{4\pi f} \quad (20)$$

gives

$$E_0 = Q_1 f_m^{-10/3} \quad (21)$$

where

$$Q_1 = \frac{\lambda \alpha_*}{3 (2\pi)^{10/3}} u_*^{2/3} g^{4/3} \quad (22)$$

and α_* is α divided by the square root of the drag coefficient, and from Equation 14,

$$\frac{\partial E_0}{\partial t} = J\beta_1 \frac{g}{4\pi} \frac{u_*^2}{g} f_m^{-1} \quad (23)$$

If $R = f_m^{-10/3}$, then Equation 23 becomes

$$\frac{\partial Q_1 R}{\partial t} = J\beta_1 \frac{g}{4\pi} \frac{u_*^2}{g} R^{3/10} \quad (24)$$

Separating the variables and integrating yields

$$\frac{10}{7} (R^{7/10} - R_0^{7/10}) = \frac{J\beta_1}{Q_1 4\pi} u_*^2 (t - t_0) \quad (25)$$

where the subscript "0" refers to initial conditions at time t_0 . Rearranging and substituting f_m back into Equation 21 yields

$$f_m^{-7/3} = f_m^{-7/3}|_{t_0} + \frac{7}{10} \frac{J\beta_1 u_*^2}{Q_1 4\pi} (t - t_0) \quad (26)$$

If all dimensional quantities are factored out, then the change in f_m over a time step is given as

$$f_m^{-7/3}|^{n+1} = f_m^{-7/3}|^n + \frac{J\beta_1}{\lambda \alpha_*} Q_3 \left(\frac{u_*}{g} \right)^{4/3} (t - t_0) \quad (27)$$

where the superscripts "n" and "n+1" refer to time-step counters and

$$Q_3 = \left(\frac{7}{10}\right) \frac{3(2\pi)^{10/3}}{4\pi} \quad (28)$$

Thus, the rate of change of f_m can be seen to depend on four parameters, J , λ , α , and \mathcal{E}_1 . Each of these parameters can be defined independently, J and α on an empirical basis and λ and \mathcal{E}_1 from numerical constraints.

30. Equation 23 expresses a fundamental law for active wave generation. This can be converted into a nonlinear source term by equating S_{NL} to differences in energy densities

$$S_{NL}(f, \theta) = [\hat{E}(f)^{n+1} - \hat{E}(f)^n] \Phi(\theta - \theta_0) \quad (29)$$

where $\hat{E}(f)$ is the estimated value of the one-dimensional spectral density $E(f)$, $\Phi(\theta - \theta_0)$ is an angular function, and θ_0 is the mean wave propagation direction. The approach to a fully developed sea can be modeled by introducing a limiting parameter such that

$$T_m|^{n+1} = T_m|^n + p \frac{\partial T_m}{\partial t} \Delta t \quad (30)$$

where T_m is the peak period and p is given by

$$p = 1 \text{ if } f_m > f_{PM}$$

$$= 0 \text{ if } f_m \leq f_{PM}$$

and f_{PM} is the "fully" developed peak frequency given by

$$f_{PM} = Z_c g / (2\pi u)$$

where Z_c is a dimensionless empirical constant (taken as 0.9 in DWAVE).

31. Swell decay in this model is based on the concept of energy loss by nonlinear fluxes. In this form, the total energy flux from the "rear-slope" portion of the spectrum is estimated as

$$\Gamma_E = \left[\frac{a_1 (2\pi)^9}{g^4} \right] E_0^3 f_m^9 \quad (31)$$

where a_1 is a dimensionless empirical constant that ranges in value from 0.35 to 2.0. The value used in this study is 0.40. An explicit scheme is used to estimate the energy loss over the time step, and a part of the energy is redistributed to the forward face. A schematic of S_{NL} is shown in Figure 6 from Resio and Bach.*

32. In summary, DWAVE is a computer code that simulates the growth, propagation, and decay of wave energy as a function of space, time, frequency, and direction. Wave growth occurs through transfer of energy from the wind to the sea surface. Part of this energy results in surface gravity waves. As energy continues to flow into the spectrum, wave-wave interactions transfer energy from the midrange portion of the spectrum to both the forward face and high-frequency regions. For constant wind input, eventually an equilibrium of energy versus frequency is reached. Wave energy is propagated in space through time as a function of frequency and direction of each of the discrete energy packets.

* Resio and Bach, op. cit.

PART IV: MODEL CALIBRATION

33. Most numerical wave models require a certain amount of fine-tuning, or calibration, when first applied to a particular area. A model can be calibrated in several ways, including adjustment of certain internal parameters that control processes such as wave growth, propagation, and dissipation; adjustment of external parameters, such as input wind fields; or a combination of both. To determine if, and to what degree, the model used in the present study required calibration, modeled wave parameters from the grid point closest to the buoy location were compared with the same buoy-measured parameters for the period 1980-1986. Stated accuracy for the measured parameters is ± 0.2 m, or 5 percent, for wave height; ± 1.0 sec for peak spectral period; ± 1.0 m/sec, or 10 percent, for wind speed; and ± 10 deg for wind direction (Gilhousen et al. 1990). Percent distribution histograms of measured (Buoys 45003 and 45008) versus modeled (WIS Sta 55 and 53) wind speed, wave height, and peak spectral period were examined.

34. Figure 7a shows that the distribution of wind speed at Buoy 45008 (WIS Sta 53) is significantly different, with the buoy exhibiting a smaller (50 versus 69) percentage of wind speeds 5 m/sec or less, and a higher (50 versus 31) percentage of speeds greater than 5 m/sec. The resulting wave height distribution plot (Figure 7b) reflects the differences exhibited by the winds, particularly at the extremes. A difference in the distribution of peak periods is also evident (Figure 7c). Similar trends are shown in Figures 8a, b, and c in the distribution plots for Buoy 45003 (WIS Sta 55).

35. Given the inherent problems in assimilating wind data from irregularly spaced (both spatial and temporal) observations and in determining how best to blend all the available data, it was felt that the input wind field was the most "free" parameter to vary for model calibration. The best approach was determined to be an adjustment to the input (modeled) wind speeds that would force a closer match to the measured wind-speed distribution. This was accomplished by plotting the cumulative distribution curve for both the measured and modeled wind speeds, selecting wind-speed values at fixed percentage values (10, 20, 30, etc.), and determining the best fit relationship between the selected values. This methodology was applied to both buoys

and resulted in an adjustment to the original modeled winds based on the relationship:

$$y = 1.22x - 0.60 \quad \text{for } x \leq 5 \text{ m/sec}$$

$$y = 1.68x - 3.14 \quad \text{for } x > 5 \text{ m/sec}$$

relating measured (y) and modeled (x) wind speeds. The effect was to redistribute the modeled wind speeds, resulting in the distributions shown in Figures 9a and 10a. Wind directions were unchanged. This improved agreement in wind speeds resulted in the corresponding improvement in the wave height and peak spectral period distributions shown in Figures 9b and c, and 10b and c. Based on this improved agreement, the above procedure was considered sufficient and was used for the entire 32-year hindcast.

PART V: VERIFICATION

36. An important question to ask in any study involving numerical models, whether used for hindcasting purposes as in the present study or as a forecasting tool, is, "How well does the simulated data reproduce, or predict, what has, or what will, occur?" The ability to answer this question with any degree of confidence depends on the availability and quality of field measurements within the study area. As was pointed out in the introduction, wave height measurements on Lake Huron prior to the installation of the NOAA buoys were very scarce.

37. The main source of verification data is the NOAA buoys which, for purposes of this study, have provided data for varying portions of 7 years (1980-1986). In an effort to verify both the model and the corrections made to the input wind speeds, all available data from each of the two buoys were compared with corresponding modeled data via time-history plots and various statistical measures. Figures 11 and 12 show representative samples of time-series comparison plots for each buoy location. In general, the agreement is quite good, with the same pattern of peaks and troughs echoed in both the modeled and measured data. These figures illustrate that the model does not consistently under- or overpredict the buoy measurements and, therefore, is not biased. Tables 4 through 7 contain the wave height and peak period statistics for the comparison period for each buoy location. The mean and maximum values are in close agreement, with correlation coefficients ranging from 0.71 to 0.77 for wave heights and 0.59 to 0.66 for peak periods. However, peak period is a statistically unstable parameter, particularly during times of low wave energy when it may be difficult to define a spectral peak, and would be expected to produce lower correlations.

38. Although the NOAA buoys provided much needed information for the calibration of the winds and the verification of hindcast wave heights and periods, they unfortunately provided no information for the verification of hindcast wave directions. Nevertheless, based on the results of the calibration and verification phases, it is believed that the hindcast data are within the stated accuracy of the measured parameters and therefore represent a reliable estimate of the actual wave conditions.

PART VI: ESTIMATION OF ICE CONCENTRATION

39. Lake Huron is the third largest water mass of the Great Lakes with the second largest surface area. Its dimensions include a mean depth of 59 m, a width of 294 km, and a length of 331 km. The ice cover normally increases in extent on Lake Huron through the end of February, when it reaches its greatest areal coverage of approximately 70 percent and then recedes in March and April to a coverage of 10 percent. One obvious effect of this extensive icing over is a reduction in the size of the lake, resulting in both the elimination of some or all of the 55 stations of interest and a significant change in the open water available for wave generation. The number of stations either lost or impacted by the reduced fetch depends on whether it is early, middle, or late winter.

40. Given the relatively high percentage of ice coverage experienced by Lake Huron during a normal winter, any effort to develop a long-term wave database would be incomplete without including the resulting effects. To accomplish this, additional model runs using ice-modified, land-water boundary data were made for the same 32-year period as the open-water hindcast.

41. Land-water matrix modification was made possible by using an extensive, 20-winter, digital data set compiled by the Great Lakes Environmental Research Laboratory (GLERL) of the NOAA (Assel et al. 1983). This database consists of ice concentration observations, beginning in the winter of 1960 and including all of the Great Lakes, made by both US and Canadian government agencies. The data are partitioned into nine half-month intervals starting with the latter half of December. Ice concentration values are given in increments of 10 percent from 0 (open water) to 100 (total ice cover) for individual grid cells measuring 5 km square.

42. The GLERL analyzed each half-month data set to provide the maximum, minimum, average, median, and modal ice concentrations for each 5-km cell. The median value, which represents an estimate of the 50-percent point of the ice concentration probability distribution, is referred to as the "normal" winter ice concentration. This particular statistical value was chosen because it was "subjectively determined that the median ice concentration patterns provided the most coherent pattern of the progression of ice-cover formation and decay over the winter season" (Assel et al. 1983). It was

decided, therefore, that the GLERL-derived, median ice concentration values for each of the nine half-month time periods would provide the best data for modifying the original land-water boundary matrix.

43. The procedure for incorporating the progression and decay of the time-dependent ice cover was complicated by the fact that different grid cell sizes were used for mapping the ice concentration (5 by 5 km) and for hindcasting the waves (16 by 16 km). To facilitate a direct relationship, ice-concentration values from a block of nine grid cells (three by three) were averaged to produce one value corresponding to a cell that was approximately the same size as a hindcast grid cell. If the ice-concentration value in this larger cell was 50 percent or greater, it was considered, for modeling purposes, to be totally covered, and the corresponding hindcast grid point was changed from a water point to a land point.

44. This procedure resulted in the formation of eight half-month land-water boundary matrices reflecting the various stages of ice-cover development and decay (Figures 13a-h). The ninth half-month matrix for the period 16-31 April was found to be without substantial ice cover for the 20-winter period and, therefore, was not computed. The hindcast model was then re-run for the 32-year period, using the appropriate matrix for each date. The results were again summarized in the form of percent occurrence tables, mean and maximum monthly values, and return period statistics.*

* Appendices C (Percent Occurrence Tables, Ice Conditions), D (Mean and Maximum Monthly Values, Ice Conditions), and E (Return Period Tables, Ice Conditions) are available for loan by request from the WES Technical Information Center Library or the WIS Project Office, USAE Waterways Experiment Station, 3909 Halls Ferry Road, Vicksburg, MS 39180-6199.

PART VII: EXPLANATION OF SUMMARY TABLES

Percent Occurrence Tables

Description

45. Two types of tables are printed: azimuth tables and tables for all directions. The azimuth tables give the percent occurrence of waves in height and period ranges for specified direction bands at each station. The title of each table provides station identification and azimuth, or midpoint angle for each of the sixteen 22.5-deg direction bands (Table 8). The period ranges were derived from the period ranges available from the WIS hindcast model (Table 9), and the height ranges are in 0.5-m increments. Values in the azimuth tables represent the percentage of the 32-year period during which waves occur from the specified azimuth range for the indicated height and period ranges. The values have been multiplied by 1,000 to allow more accuracy while using less printing space. Summations of period and height ranges are provided in the last column and row of each table. The summations also have been multiplied by 1,000. The last line in each azimuth table contains the following information for the specified azimuth range and station:

- a. The mean wave height (H) .
- b. The largest H .
- c. The mean spectral peak period (T_p) .
- d. The number of cases (wave occurrences computed at 3-hr intervals over the length of the hindcast for that direction band).

46. The all-directions table for each station is printed following the 337.5-deg azimuth table for each station. This table gives the percent occurrence of waves within specified height and period ranges coming from all directions. Values in the all-directions table are multiplied by 100. The parameters listed in the last line of the table are derived from all directions for the full 32 years, and the total number of cases (93,504) is the number of cases calculated in the 32 years analyzed.

Use of the tables

47. The tables have been developed to produce the most detailed information available in a summary report.

Example

48. To find the number of hours that waves of 0.50 to 0.99 m and 3.0 to 3.9 sec are expected to occur from the 292.5-deg band at Sta 1 for the 32-year interval, the value read in the table for the specified station, azimuth, height, and period should first be divided by 1,000, which for this example yields 1.853 percent (Appendix A). Then 1.853 is divided by 100 to give the probability (0.01853) and multiplied by the number of hours for the 32-year interval (93,504 cases times 3 hr = 280,512 hr) to yield the number of hours that the specified wave is expected to occur. The simple conversion process is:

$$\frac{\text{Value read in table}}{1,000 \times 100} \times \begin{matrix} \text{number of hours} \\ \text{in time interval} \end{matrix} = \begin{matrix} \text{number of hours} \\ \text{specified wave is} \\ \text{expected to occur} \end{matrix}$$

For this example:

$$\frac{1.853}{1,000 \times 100} \times 280,512 \text{ hr} = 5,198 \text{ hr}$$

Wave Rose Diagrams

Description

49. The wave rose diagrams use wave height H and wave direction D and present analyses of the 32 years of hindcast data. The diagrams show the percent occurrence of H ranges from eight (45-deg) direction bands. The percentage of waves occurring from each direction for the specified station is displayed in a triangle at the end of each leg of the diagram.

50. As in most wave rose diagrams, the width of each bar segment indicates the H range, and the length of the bar segment indicates the percent occurrence of waves from the specified direction. The distance between each circle in the diagram is 20 percent. Each leg of the diagram represents 22.5 deg to either side of the primary direction of the leg. For example, the

leg to the north represents waves coming from 337.5 deg (NNW) through 0 deg (N) to 22.5 deg (NNE).

Use of the diagrams

51. The diagrams are intended as visual aids and are not appropriate for detailed analyses.

Example

52. The wave rose diagram for Sta 1 (Appendix A) indicates that 6 percent of the waves were from the east, 90-deg band (waves moving east to west), and of the 6 percent, approximately 45 percent were 0.0 to 0.4 m, about 20 percent were 0.5 to 0.9 m, about 12 percent were 1.0 to 1.4 m, etc. The total for each leg is 100 percent for the specified direction.

Mean H , Largest H , and 32-Year Statistics Tables

Description

53. Two tables that summarize the mean and largest H for each month and year are provided for each station (Appendix A). The mean table also provides a mean monthly value and mean yearly value of H . The largest H table provides the largest H hindcast for each month in each year. The 32-year statistics tables provide the following:

- a. Mean H .
- b. Mean T_p .
- c. Most frequent D band.
- d. Standard deviation of H .
- e. Standard deviation of T_p .
- f. Largest H .
- g. T_p of largest H .
- h. D of largest H .
- i. Date and time (GMT) of largest H .

Use of the tables

54. The tables can be used as a quick reference in determining estimates of the wave climate in an area.

Example

55. To determine the mean H at Sta 1 for January 1956, simply read the value in the specified column and row (Appendix A). The mean H for 1956 is given in the MEAN column opposite 1956. The mean H for all January's is given in the MEAN row under JAN. For this example:

- a. The mean H for JAN 1956 = 0.9 m.
- b. The mean H for 1956 = 0.6 m.
- c. The mean H for all JAN's = 1.0 m.

The largest H table can be read in a similar fashion, and by scanning the columns and rows, additional information can be determined:

- a. The largest H for JAN 1956 = 3.6 m.
- b. The largest H for 1956 = 3.8 m.
- c. The largest H for all JAN's = 9.5 m.

Return Period Tables

Description

56. An analysis of extreme storm wave heights was performed for each of the save stations. The procedure, developed by Goda (1988) and currently available in CERC's Automated Coastal Engineering System, fits five candidate probability distributions to a series of ranked extreme wave heights. In the present study, a Fisher-Tippett Type I distribution was chosen because it provided the best overall match to the input data. The 32-year extremal statistic tables (Appendix B) are in the following format:

- a. Wave heights for recurrence intervals of 2, 5, 10, 20, and 50 years are listed.
- b. The standard error of wave height for the specified return period is included in parentheses next to each wave height estimate.
- c. Angle Classes 1, 2, and 3 are defined as viewed by an observer on shore (Figure 14):
 - (1) Angle Class 1 - Mean wave approach angle greater than 30 deg to right of normal to shore.
 - (2) Angle Class 2 - Mean wave approach angle within 30 deg to either side of normal to shore.

(3) Angle Class 3 - Mean wave approach angle greater than 30 deg to left of normal to shore.

(4) Angle Class All - includes all directions.

57. Table 10 lists the azimuths in degrees with respect to compass directions of the vectors normal to the shoreline for each station.

Use of the table

58. Estimates of extreme wave heights and their standard errors can simply be read from the table for the desired return period and station. Table 11 provides the factor by which the standard error should be multiplied to obtain bounds for various levels of confidence and the corresponding probability of exceeding the upper bound. Table 12 can be used to find the probability of one or more waves, or larger waves, of a specified return period occurring within 1, 10, 25, or 50 years.

Example

59. Wave height values for specified return periods are simply read from the table for the desired station. For example, the 50-year maximum for Sta 1, Angle Class 1, is 5.4 m. The 50-year maximum for Sta 1, all directions, is 9.1 m. Table 12 shows that the 9.1-m extreme wave height has a probability of 0.18 of being equaled or exceeded at least once in 10 years.

PART VIII: RESULTS

60. A 32-year time-series of historical wave heights, periods, and directions has been developed for Lake Huron using the latest version of the Coastal Engineering Research Center's deepwater wave model. The data presented in this report, in the form of graphs and tables, serve to verify the hindcast procedure as well as present a concise and useful summary of a very large data set.

61. Information contained in this report can be quite useful for initial assessments, but users must keep in mind that the results from this hindcast represent deepwater conditions, and, as such, should be used only as approximations to coastal conditions. For detailed coastal wave information, such as that required for the design, construction, operation, and maintenance of coastal structures, one must take advantage of the full two-dimensional spectrum (available on magnetic tape) from the nearest deepwater point and use an appropriate shallow-water wave transformation model to bring the waves to the point of interest.

62. One of the more important parameters reported is the return period wave height. It is often this extreme value that guides the design of many coastal structures, such as selection of the appropriate rock size for a jetty or breakwater. Coastal engineers, both within the COE and in the private sector, responsible for the design of coastal structures on the Great Lakes have relied heavily on the results of RV for estimates of extreme waves. The return period wave heights estimated in this study were compared with those reported in RV. The results, illustrated in Figures 15a-d and listed in Table 13, compare the wave heights at co-located stations for return periods of 5, 10, 20, and 50 years, respectively. Each plot shows a similar pattern, with the return period wave heights from the present study (WIS) consistently higher than the RV return period wave heights with the exception of Sta 26 through 28. Although each return period category exhibits a similar trend, the differences range from very little at Sta 16, 17, and 18 to over 3 m at Sta 5.

63. It is felt that the WIS estimates are more realistic given the fetch lengths involved and the nature of the storms that pass over the area. As an example, the SPM (1984) nomograms of deepwater wave height prediction

suggest that Sta 1, with an estimated fetch of 290 km to the north, could experience a 9.0-m wave given a wind speed of 32 m/sec blowing for approximately 12 hr. This agrees quite well with the WIS estimate of 9.1 m reported for the 50-year return period at Sta 1. Although these curves are for monochromatic wave conditions, they do serve to indicate that the return period wave heights estimated in the present study are realistic and that, perhaps, the RV estimates for these stations are low.

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Table 1
Lake Huron Station

<u>Station</u>	<u>Latitude, deg N</u>	<u>Longitude, deg W</u>	<u>Depth, m</u>
1	43.05	82.32	6
2	43.18	82.32	14
3	43.33	82.32	21
4	43.47	82.52	9
5	43.62	82.52	10
6	43.75	82.52	20
7	43.90	82.52	30
8	44.05	82.52	33
9	44.05	82.71	18
10	44.05	83.12	12
11	44.05	83.32	8
12	44.18	83.32	11
13	44.33	83.12	29
14	44.48	83.12	25
15	44.63	83.12	20
16	44.77	83.12	28
17	44.92	83.12	17
18	45.07	83.12	6
19	45.20	83.12	65
20	45.35	83.32	30
21	45.50	83.52	43
22	45.50	83.72	37
23	45.63	83.90	30
24	45.63	84.10	23
25	45.78	84.10	20
26	45.78	83.90	56
27	45.78	83.72	45
28	45.78	83.52	39
29	45.63	83.32	65
30	45.63	83.12	55
31	45.50	82.92	33
32	45.63	82.71	40
33	45.63	82.52	14
34	45.50	82.32	37
35	45.50	82.12	18
36	45.35	81.93	25
37	45.20	81.93	33
38	45.07	81.72	15
39	44.92	81.53	15
40	44.77	81.53	25
41	44.63	81.53	33
42	44.48	81.53	28

(Continued)

Table 1 (Concluded)

<u>Station</u>	<u>Latitude, deg N</u>	<u>Longitude, deg W</u>	<u>Depth, m</u>
43	44.33	81.72	69
44	44.18	81.72	25
45	44.05	81.93	22
46	43.90	81.93	26
47	43.75	81.93	28
48	43.62	81.93	30
49	43.47	81.93	22
50	43.33	81.93	14
51	43.18	82.12	8
52	43.75	82.12	46
53	44.18	82.32	50
54	44.77	82.32	80
55	45.20	82.71	103

Table 2
Lake Huron Input Wind Stations
and Period of Record

<u>Station</u>	<u>Period of Record</u>
Sault Ste. Marie, Michigan	1956 - 1987
Gore Bay, Ontario	1956 - 1986
South Baymouth, Ontario	1963 - 1986
Warton, Ontario	1956 - 1986
Goderich, Ontario	1970 - 1987
Sarnia, Ontario	1968 - 1986
Wurtsmith, Michigan	1956 - 1987
Alpena, Michigan	1959 - 1987

Table 3
Air-Sea Temperature Differences (°C)

Dir.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
E	-7.5	-5.6	-0.2	1.0	2.4	2.9	2.2	0.2	-1.6	-2.1	-4.7	-4.6
	-10.4	-6.4	0.0	1.4	2.4	3.3	1.9	0.0	-1.2	-2.0	-3.7	-7.0
	-8.4	-6.1	1.4	2.0	2.7	3.6	2.5	0.1	-0.9	-1.1	-3.2	-5.8
	-8.4	-4.1	1.8	2.3	3.3	4.5	2.6	0.7	-0.4	-1.0	-3.5	-5.8
	-8.1	-6.9	1.7	2.0	3.8	4.3	1.9	0.8	0.0	-1.0	-2.9	-4.9
	-9.5	-5.8	1.8	0.6	3.0	4.1	2.6	0.6	0.0	-1.0	-2.5	-5.1
	-9.0	-5.2	-4.6	1.8	3.4	4.1	1.6	0.6	0.2	-0.2	-1.8	-4.0
	-6.9	-3.5	-1.2	2.2	3.4	3.8	2.0	0.8	0.7	-0.3	-1.5	-1.9
	-4.0	-2.0	-2.7	2.8	3.5	3.9	2.2	0.7	1.0	0.1	-0.9	0.0
N	-5.9	-3.1	-2.3	3.3	3.6	3.8	2.2	0.7	1.0	0.5	-0.4	-4.1
	-5.3	-4.3	-1.4	3.4	3.2	3.5	1.9	0.6	1.0	0.5	0.1	-3.0
	-7.8	-2.6	-2.4	3.1	3.0	3.0	1.7	0.3	0.6	0.1	-0.3	-1.4
	-3.4	-2.1	-1.1	3.4	2.7	2.9	1.4	0.1	0.0	0.2	-0.3	-1.4
	-5.7	-3.2	-0.6	2.1	2.8	1.6	1.5	0.1	0.0	-0.6	-1.4	-3.3
	-3.2	-3.6	-1.9	1.7	2.5	2.8	0.9	0.1	-0.4	-0.4	-1.4	-3.9
	-3.2	-0.5	-0.1	1.2	2.7	2.7	1.3	-0.1	-0.3	-0.8	-1.3	-4.4
	-3.3	-2.4	0.1	1.2	2.5	3.0	1.4	-0.5	-0.5	-0.8	-1.1	-4.6
	-3.9	-2.2	-0.2	1.6	2.4	2.2	1.7	-0.4	-0.8	-1.6	-1.8	-5.7
W	-4.3	-2.5	-0.7	1.2	2.3	3.1	1.0	-0.6	-0.9	-1.8	-2.1	-6.6
	-4.5	-1.5	-0.9	1.1	3.0	2.7	0.4	-0.5	-0.7	-2.0	-1.5	-6.7
	-4.7	-1.5	-1.2	1.1	3.1	2.2	0.9	-0.9	-1.0	-2.4	-3.0	-7.6
	-3.7	-2.7	-1.0	1.2	2.8	2.3	0.6	-1.0	-1.8	-2.8	-4.4	-6.7
	-4.3	-3.0	-1.3	1.0	2.4	2.0	0.3	-1.0	-2.3	-2.2	-3.9	-4.9
	-4.7	-3.6	-3.3	1.0	2.4	2.5	0.8	-1.2	-2.1	-3.0	-4.0	-4.1
	-4.9	-4.0	-1.4	0.5	2.0	2.8	0.3	-1.2	-2.0	-3.1	-4.8	-7.5
	-7.6	-5.3	-2.7	1.1	2.0	2.4	0.2	-0.7	-2.2	-3.1	-5.1	-4.6
	-7.8	-7.6	-1.5	0.0	1.6	2.5	0.6	-0.9	-2.3	-2.7	-5.8	-8.5
S	-8.7	-4.1	-0.9	0.2	2.4	1.7	0.9	-0.9	-1.1	-3.4	-3.5	-5.7
	-9.3	-7.4	-2.7	0.7	2.1	2.8	0.5	-0.6	-2.3	-4.4	-6.5	-6.7
	-10.2	-6.4	-2.1	-0.4	1.8	3.2	0.5	-1.3	-2.6	-3.7	-5.6	-8.1
	-10.3	-7.9	-4.1	-0.4	2.2	3.3	0.9	-0.6	-2.5	-3.6	-5.9	-7.2
	-9.9	-8.0	-2.2	-0.6	1.8	3.1	1.2	-0.8	-2.6	-3.3	-4.7	-7.5
	-8.5	-5.2	-2.6	-0.1	2.3	3.0	1.2	-0.4	-2.5	-2.5	-4.3	-5.1
	-9.1	-6.2	-1.5	0.1	1.9	3.2	1.8	-0.5	-1.9	-1.9	-4.1	-7.6
	-10.5	-6.7	0.1	0.5	2.1	2.9	1.9	0.1	-1.8	-1.8	-3.0	-5.7
	-9.8	-7.4	-0.2	0.3	2.3	3.1	2.1	0.0	-2.4	-1.3	-4.1	-6.3

Note: Columns represent averages of air-sea temperature differences by month. Rows represent averages of air-sea temperature difference by wind vector direction within 10-deg classes (Class 1 = due east, 10 = due north, 19 = due west, 28 = due south).

Table 4
Wave Height Statistics Lake Huron 1980-1986

<u>Statistical Parameter</u>	<u>Buoy 45003, m</u>	<u>WIS Sta 55, m</u>
Mean	0.82	0.83
Std dev about mean	0.68	0.60
Maximum value	4.90	5.80
RMSE		0.44
Correlation coefficient		0.77
Scatter index		0.54
Least squares (x = buoy, y = WIS)		
Slope		0.68
Intercept		0.28
No. Observations		9,658

Table 5
Peak Period Statistics Lake Huron 1980-1986

<u>Statistical Parameter</u>	<u>Buoy 45003, m</u>	<u>WIS Sta 55, m</u>
Mean	4.17	4.14
Std dev about mean	1.26	1.22
Maximum value	10.0	10.0
RMSE		1.02
Correlation coefficient		0.66
Scatter index		0.25
Least squares (x = buoy, y = WIS)		
Slope		0.65
Intercept		1.45
No. Observations		9,658

Table 6

Wave Height Statistics Lake Huron 1981-1986

<u>Statistical Parameter</u>	<u>Buoy 45008, m</u>	<u>WIS Sta 53, m</u>
Mean	0.84	0.75
Std dev about mean	0.70	0.56
Maximum value	4.90	5.10
RMSE		0.50
Correlation coefficient		0.71
Scatter index		0.60
Least squares (x = buoy, y = WIS)		
Slope		0.57
Intercept		0.28
No. Observations		8,285

Table 7

Peak Period Statistics Lake Huron 1981-1986

<u>Statistical Parameter</u>	<u>Buoy 45008, m</u>	<u>WIS Sta 53, m</u>
Mean	4.04	4.18
Std dev about mean	1.25	1.24
Maximum value	10.0	9.00
RMSE		1.14
Correlation coefficient		0.59
Scatter index		0.28
Least squares (x = buoy, y = WIS)		
Slope		0.58
Intercept		1.82
No. Observations		8,285

Table 8
Ranges for Direction Intervals in
Percent Occurrence Tables

<u>Midband</u> <u>deg</u>	<u>Range</u> <u>deg</u>			
0.0	348.75	< D <	11.25	
22.5	11.25	< D <	33.75	
45.0	33.75	< D <	56.25	
67.5	56.25	< D <	78.75	
90.0	78.75	< D <	101.25	
112.5	101.25	< D <	123.75	
135.0	123.75	< D <	146.25	
157.5	146.25	< D <	168.75	
180.0	168.75	< D <	191.25	
202.5	191.25	< D <	213.75	
225.0	213.75	< D <	236.25	
247.5	236.25	< D <	258.75	
270.0	258.75	< D <	281.25	
292.5	281.25	< D <	303.75	
315.0	303.75	< D <	326.25	
337.5	326.25	< D <	348.75	

Table 9
Frequency Ranges Used in WIS Hindcast Model

Midband		Band Range Period		Grouping for Percent Occurrence Tables
Frequency Hz	Period sec			
0.50	2.0	1.71 < T < 2.41		<3.0
0.33	3.0	2.41 < T < 3.45		3.0-3.9
0.25	4.0	3.45 < T < 4.17		4.0-4.9
0.23	4.3	4.17 < T < 4.44		
0.22	4.5	4.44 < T < 4.65		
0.21	4.8	4.65 < T < 4.88		
0.20	5.0	4.88 < T < 5.13		5.0-5.9
0.19	5.3	5.13 < T < 5.41		
0.18	5.6	5.41 < T < 5.71		
0.17	5.9	5.71 < T < 6.06		
0.16	6.3	6.06 < T < 6.45		6.0-6.9
0.15	6.6	6.45 < T < 6.90		
0.14	7.1	6.90 < T < 7.41		7.0-7.9
0.13	7.7	7.41 < T < 8.00		
0.12	8.3	8.00 < T < 8.70		8.0-8.9
0.11	9.1	8.70 < T < 9.52		9.0-9.9
0.10	10.0	9.52 < T < 10.53		10.0-10.9
0.09	11.1	10.53 < T < 11.76		11.0-longer
0.08	12.5	11.76 < T < 13.33		
0.07	14.3	13.33 < T < 15.38		

Table 10
Azimuths of Vectors Normal to the Shoreline

<u>Station</u> <u>Location</u>	<u>Azimuth</u> <u>deg</u>	<u>Station</u> <u>Location</u>	<u>Azimuth</u> <u>deg</u>
1	354	29	205
2	75	30	208
3	85	31	188
4	76	32	192
5	88	33	228
6	81	34	212
7	63	35	212
8	59	36	228
9	38	37	235
10	330	38	232
11	55	39	238
12	119	40	247
13	100	41	300
14	95	42	304
15	104	43	294
16	86	44	298
17	90	45	270
18	90	46	264
19	54	47	270
20	43	48	264
21	31	49	278
22	41	50	316
23	53	51	313
24	30	52	270
25	192	53	51
26	179	54	237
27	195	55	52
28	184		

Table 11
Confidence Interval Bounds for Extreme
Wave Heights

<u>Confidence Level</u>	<u>Bounds Around</u> <u>Wave Height</u>	<u>Probability of</u> <u>Exceeding Upper Bound. %</u>
80	+/-1.28	10.0
85	+/-1.44	7.5
90	+/-1.65	5.0
95	+/-1.96	2.5
99	+/-2.58	0.5

Table 12
Probabilities of Extreme Wave Heights*

<u>Return Period</u> <u>years</u>	<u>Probability of Wave Height Being Equaled or</u> <u>Exceeded at Least Once in Given Number of Years</u>			
	<u>1</u>	<u>10</u>	<u>25</u>	<u>50</u>
5	0.20	0.89	>0.99	>0.99
10	0.10	0.65	0.94	>0.99
20	0.05	0.40	0.71	0.90
50	0.02	0.18	0.40	0.61

* From Reich (1983).

Table 13
Return Period Wave Heights from RV
and Present Study (WIS)

Station No.			Return Period, years									
			5		10		20		50			
RV	WIS	Depth, m	RV	WIS	RV	WIS	RV	WIS	RV	WIS	RV	WIS
1	1	6	6.2	7.7	6.3	8.1	6.4	8.5	6.6	9.1		
2	2	14	5.8	7.1	6.0	7.5	6.2	7.9	6.6	8.4		
3	3	21	4.7	6.7	5.0	7.0	5.3	7.4	5.6	7.9		
4	4	9	5.0	6.5	5.3	6.8	5.6	7.2	6.1	7.6		
5	5	10	3.7	6.3	3.7	6.7	3.7	7.0	6.5	7.4		
6	6	20	5.4	6.3	5.7	6.6	6.0	6.9	6.5	7.3		
7	7	30	5.7	6.2	6.0	6.5	6.3	6.8	6.8	7.2		
8	9	33	5.8	6.7	6.1	7.0	6.4	7.3	6.8	7.7		
9	10	18	5.9	7.6	6.1	8.0	6.4	8.4	6.8	8.9		
10	11	12	6.0	7.7	6.3	8.1	6.7	8.6	7.1	9.1		
11	12	8	6.2	7.7	6.4	8.2	6.6	8.6	7.2	9.2		
12	13	11	5.9	7.4	6.2	7.8	6.5	8.2	7.0	8.7		
13	14	29	5.9	7.3	6.1	7.6	6.5	8.0	7.0	8.4		
14	15	25	6.2	6.7	6.4	7.0	6.6	7.3	7.0	7.7		
15	16	20	6.1	6.4	6.4	6.7	6.7	6.9	7.1	7.3		
16	17	28	6.1	6.1	6.4	6.3	6.7	6.6	7.2	7.0		
17	18	17	6.1	6.0	6.4	6.3	6.8	6.7	7.3	7.1		
18	19	6	6.0	6.1	6.3	6.4	6.6	6.7	7.2	7.1		
19	20	65	5.2	6.0	5.5	6.4	5.8	6.7	6.3	7.2		
20	21	30	4.6	5.8	4.9	6.2	5.2	6.5	5.6	6.9		
21	22	43	5.0	5.9	5.2	6.3	5.5	6.7	5.9	7.2		
22	23	37	4.7	4.6	4.9	4.8	5.2	5.0	5.5	5.3		
23	25	30	4.2	4.6	4.4	4.9	4.6	5.1	4.9	5.4		
25	26	20	5.0	4.8	5.4	5.1	5.8	5.3	6.3	5.6		
26	27	56	4.9	4.6	5.3	4.8	5.7	5.0	6.3	5.3		
27	28	45	5.4	4.7	5.6	4.9	5.9	5.2	6.4	5.4		

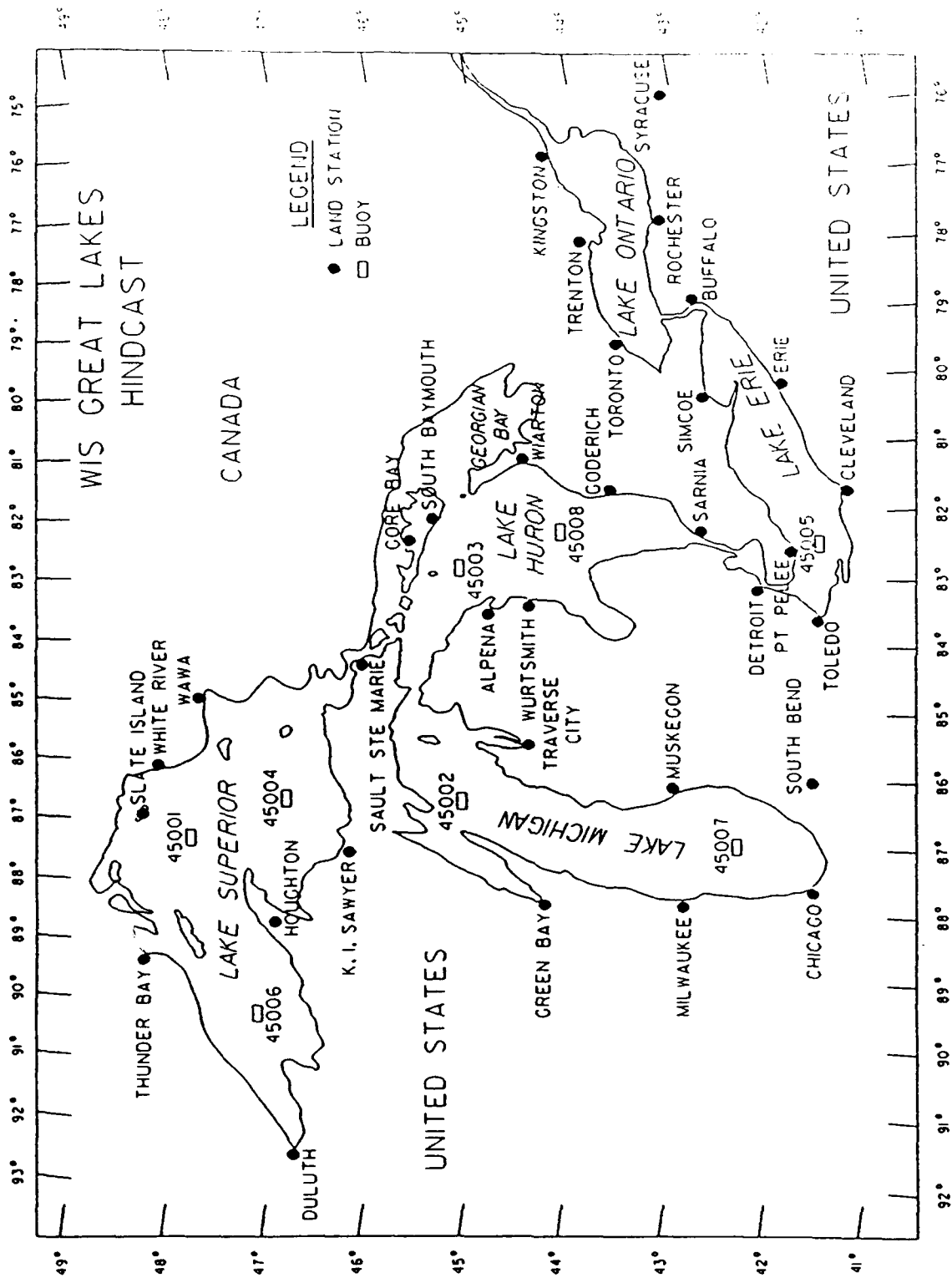


Figure 1. Location map of NOAA buoys located in the Great Lakes

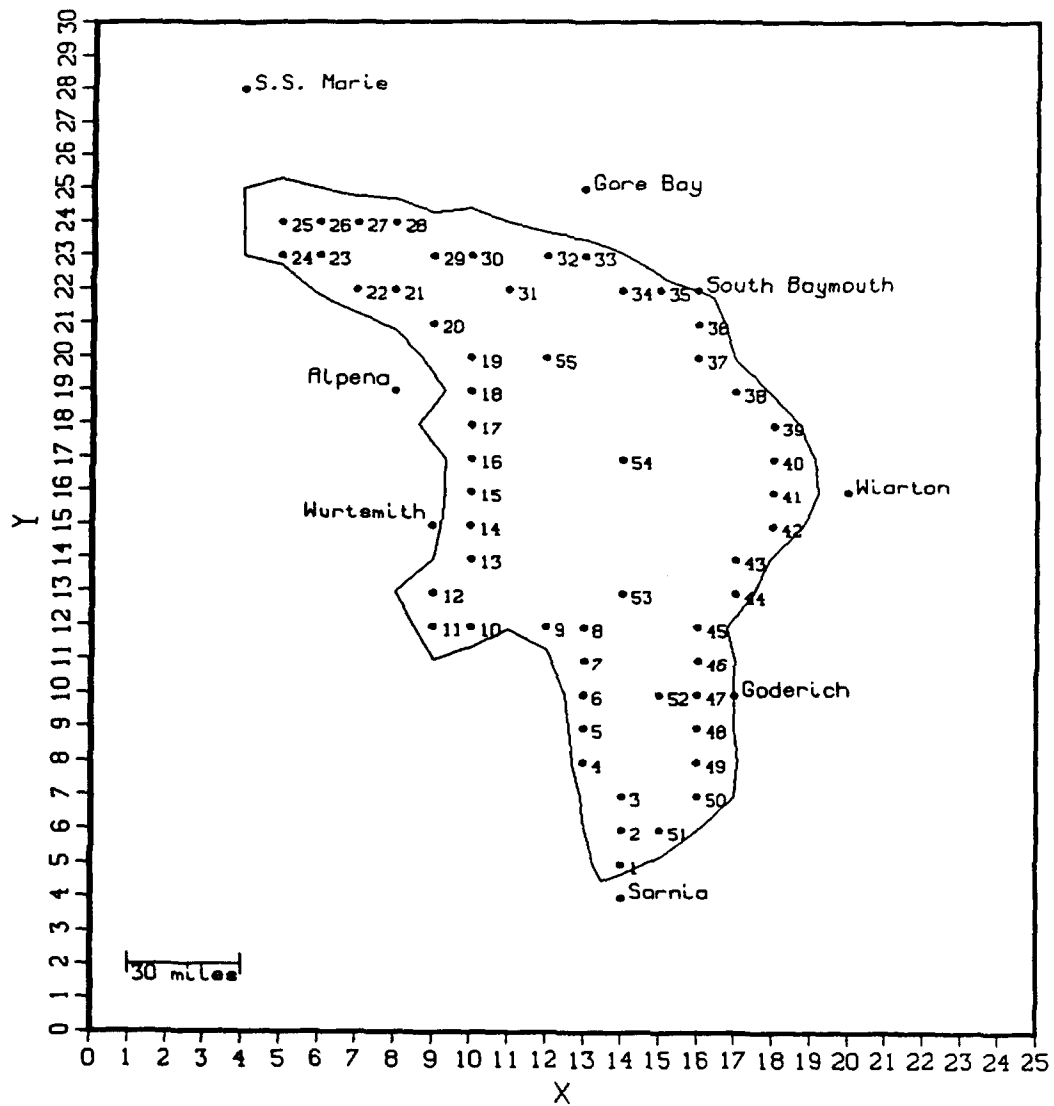


Figure 2. Station location map of Lake Huron

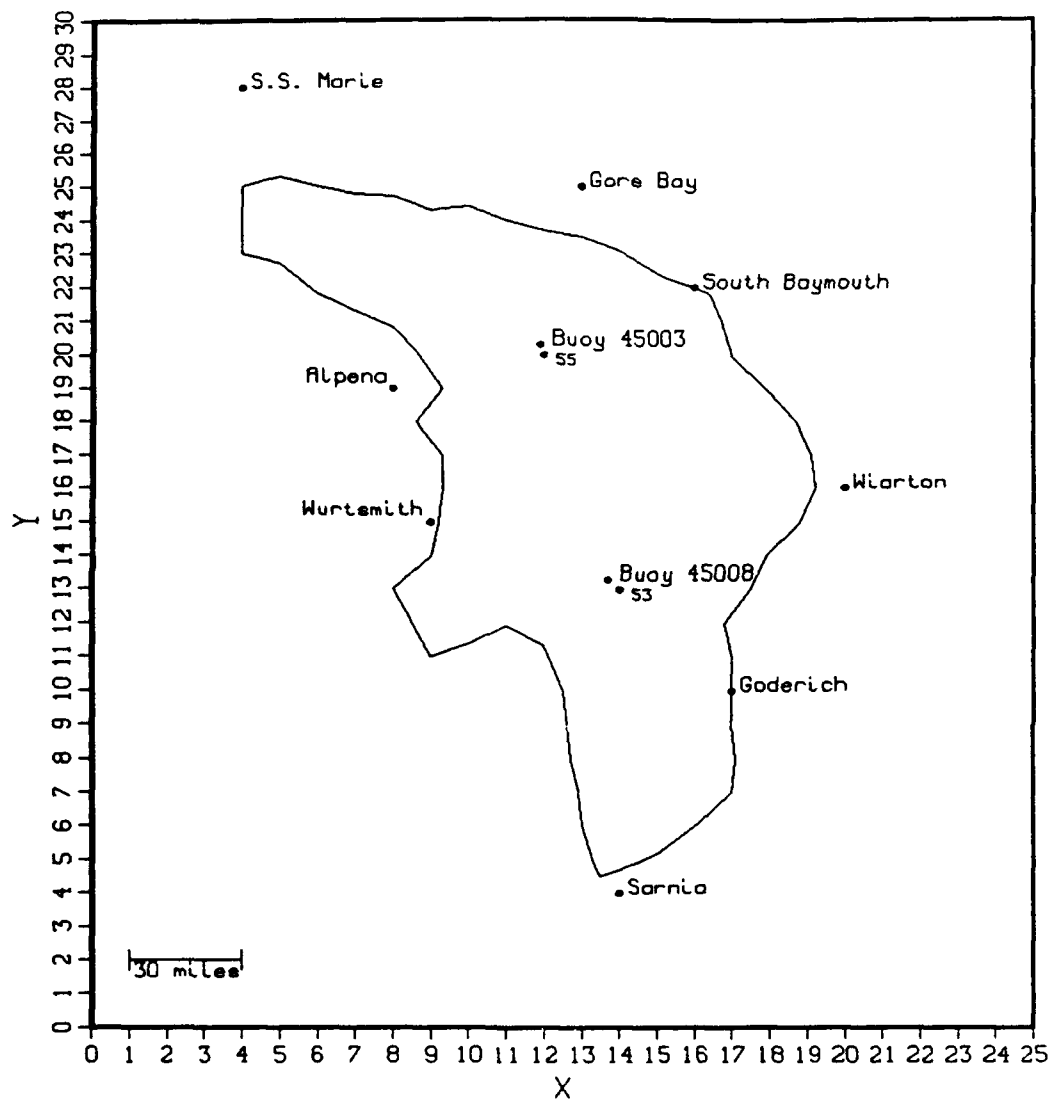


Figure 3. Location map of input wind stations and NOAA buoy placement in Lake Huron

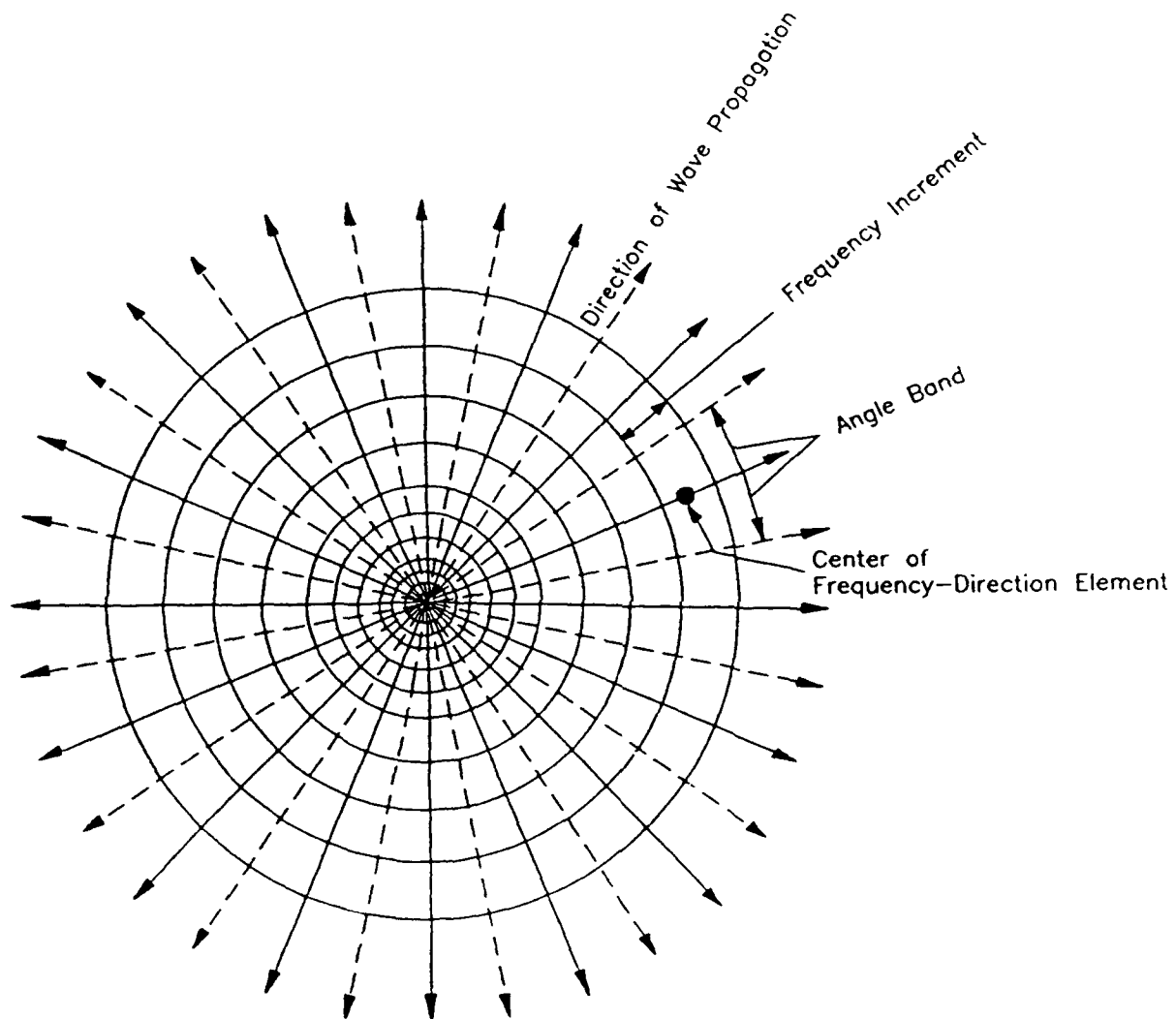


Figure 4. Schematic representation of directional spectrum

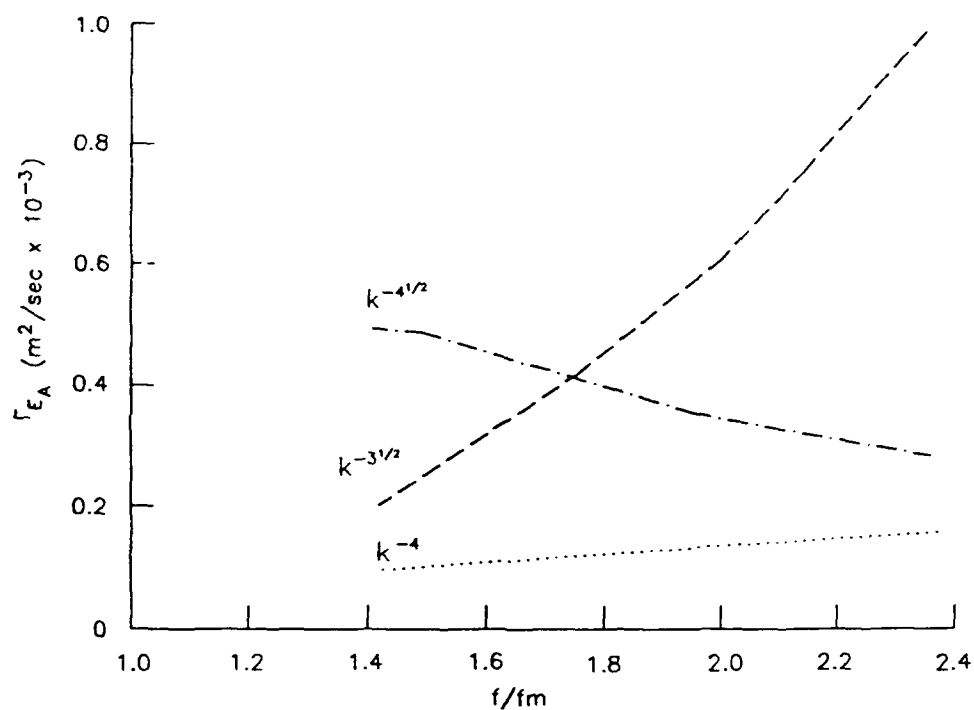


Figure 5. Calculated energy fluxes through the spectrum based on the complete Boltzmann integral

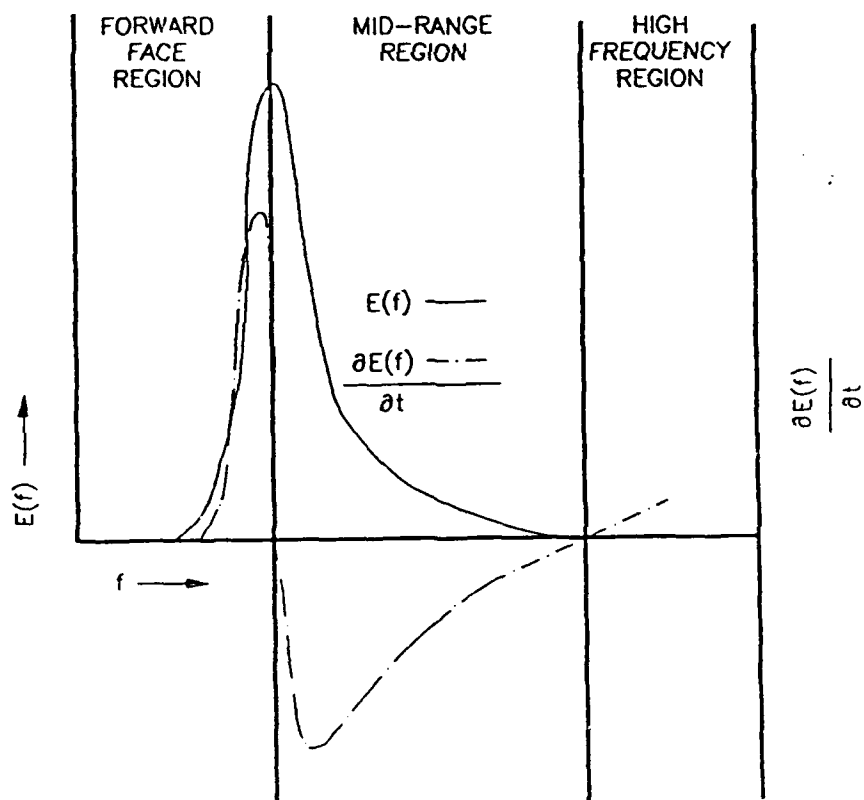
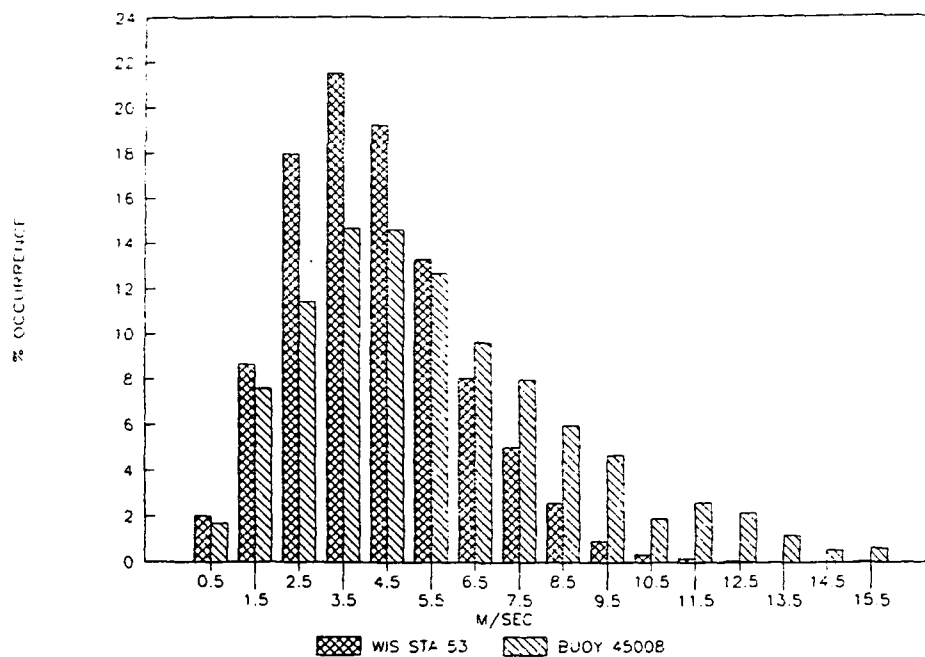
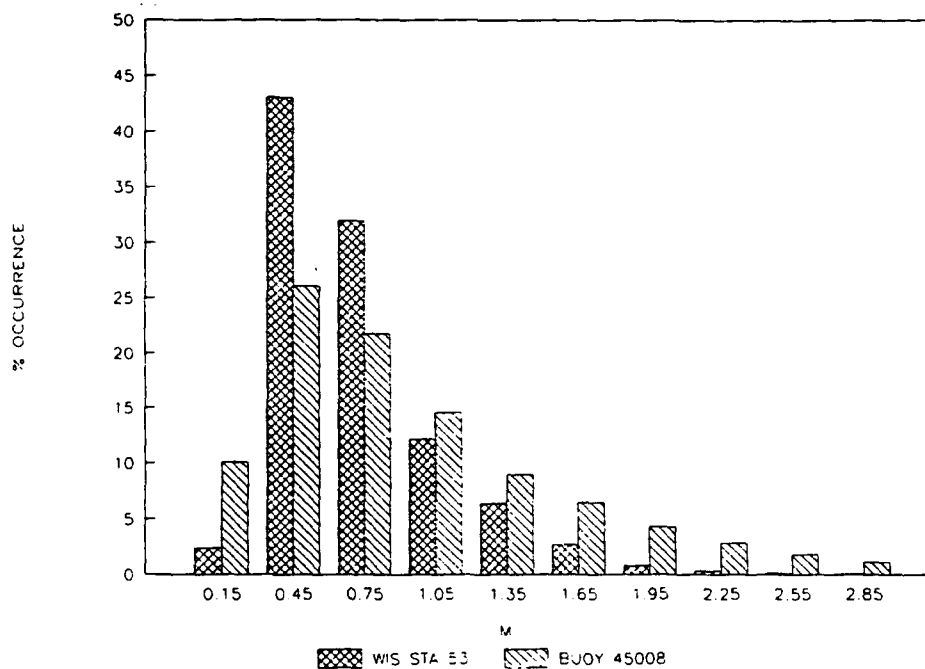


Figure 6. Nonlinear energy transfer as a function of frequency

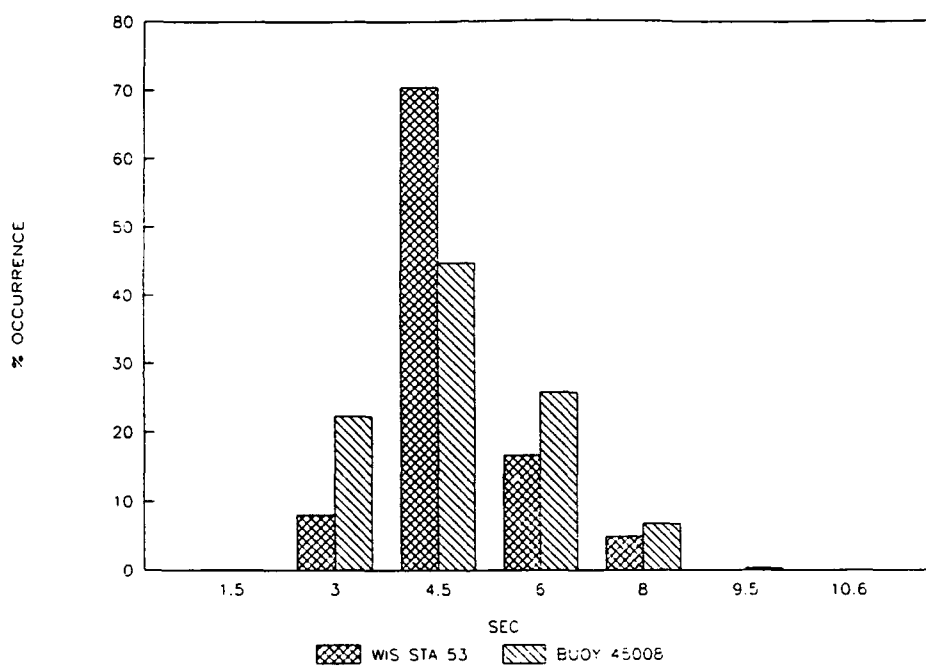


a. Wind speeds



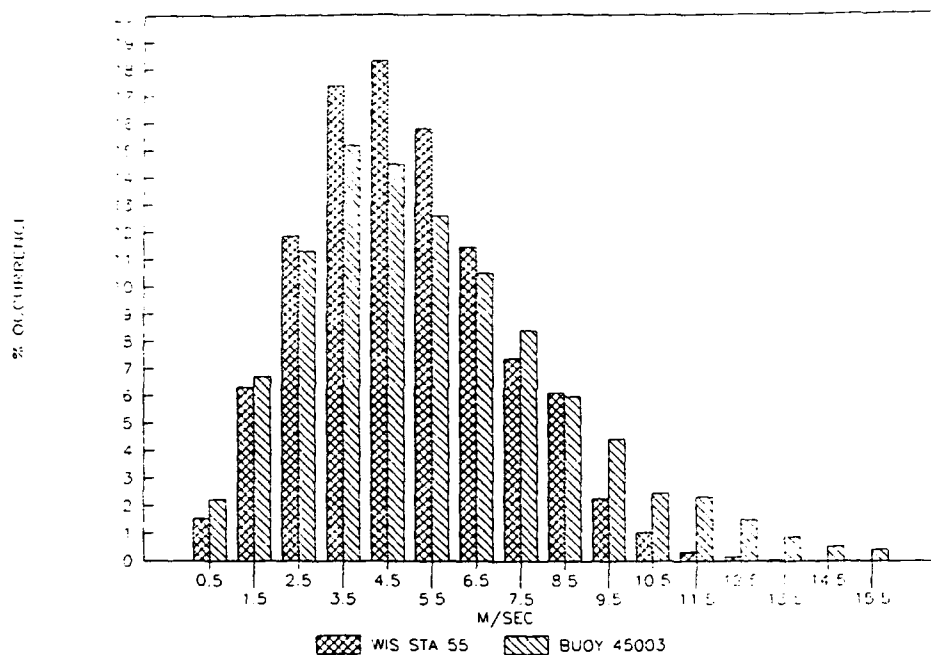
b. Wave heights

Figure 7. Percent distribution histograms of measured and initial wind speeds, wave heights, and peak periods for 1981-1986 (Continued)

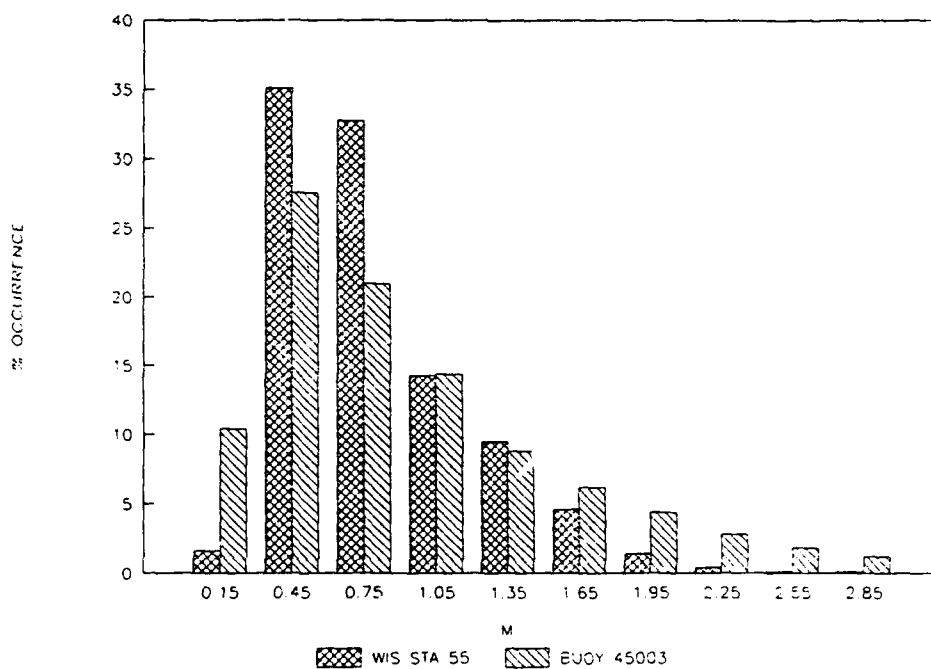


c. Peak periods

Figure 7. (Concluded)

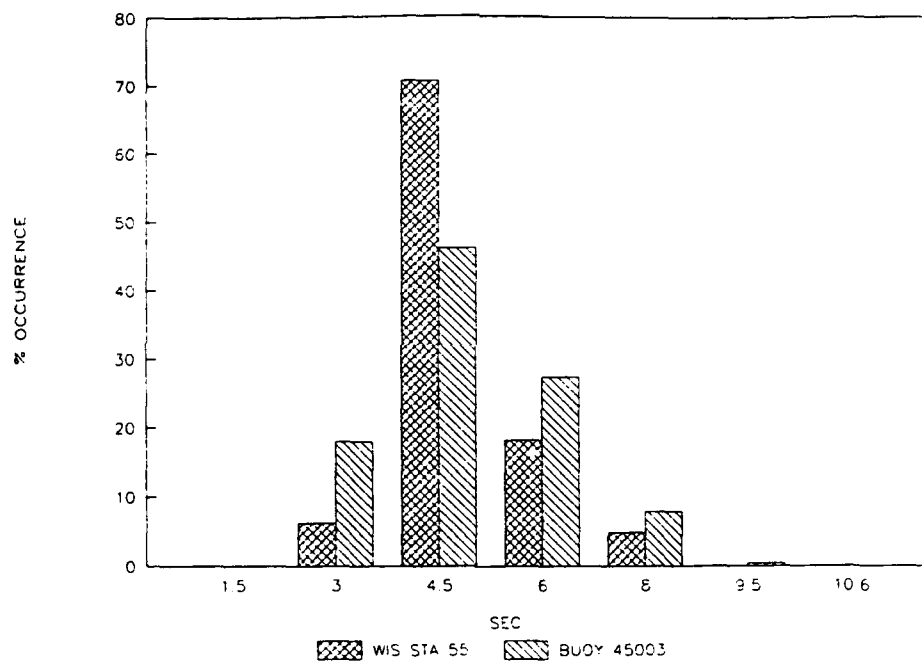


a. Wind speeds



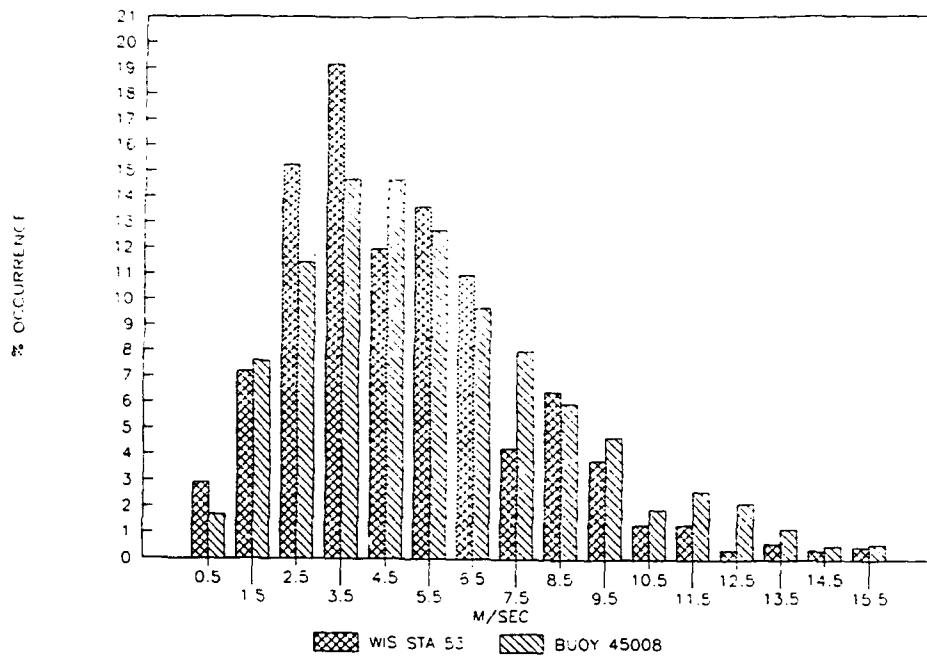
b. Wave heights

Figure 8. Percent distribution histograms of measured and initial winds speeds, wave heights, and peak periods for 1980-1986 (Continued)

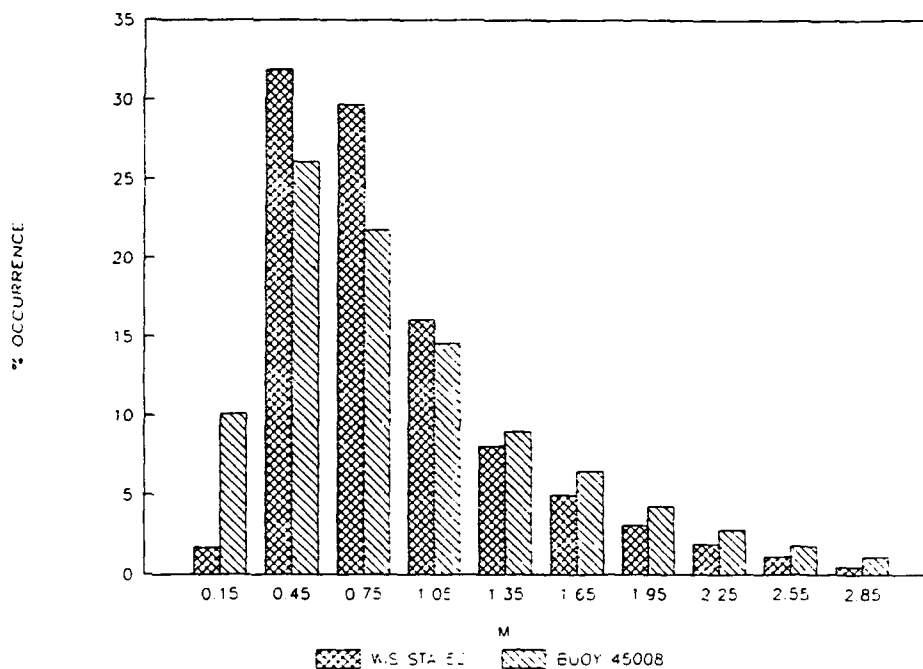


c. Peak periods

Figure 8. (Concluded)

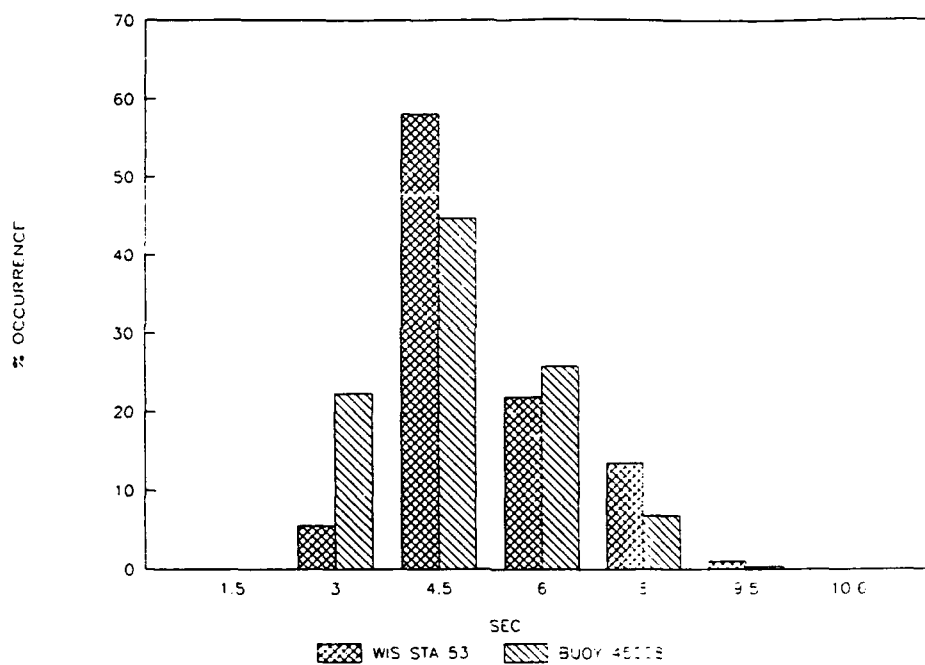


a. Wind speeds



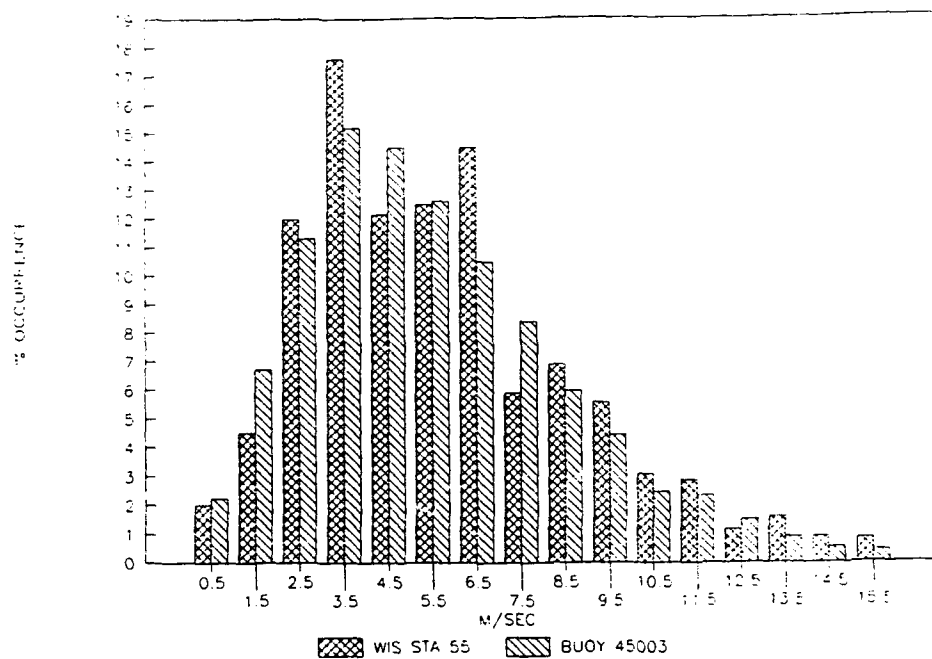
b. Wave heights

Figure 9. Percent distribution histograms of measured and adjusted winds speeds, wave heights, and peak periods for 1981-1986 (Continued)

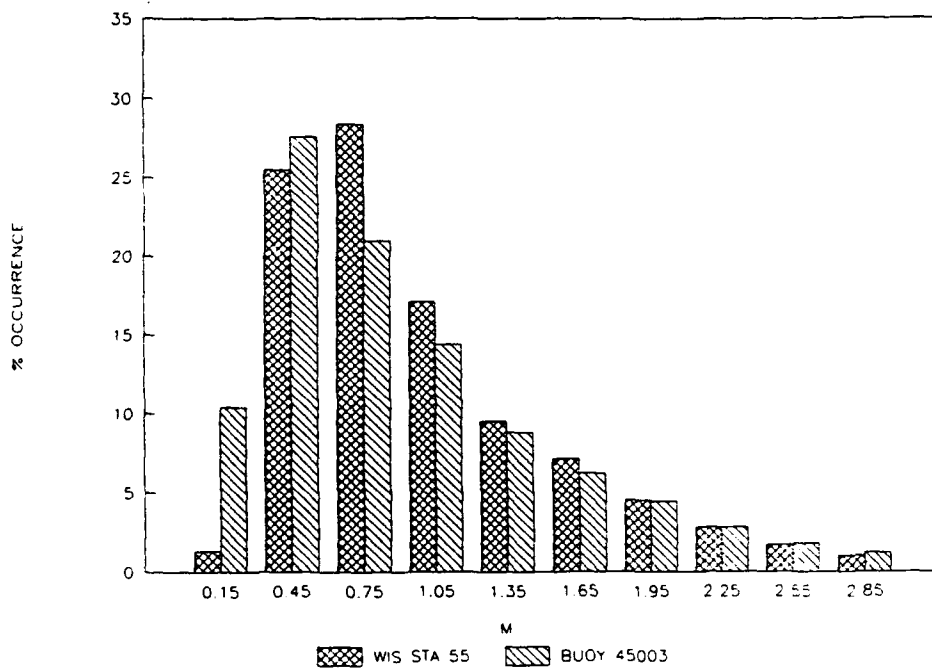


c. Peak periods

Figure 9. (Concluded)

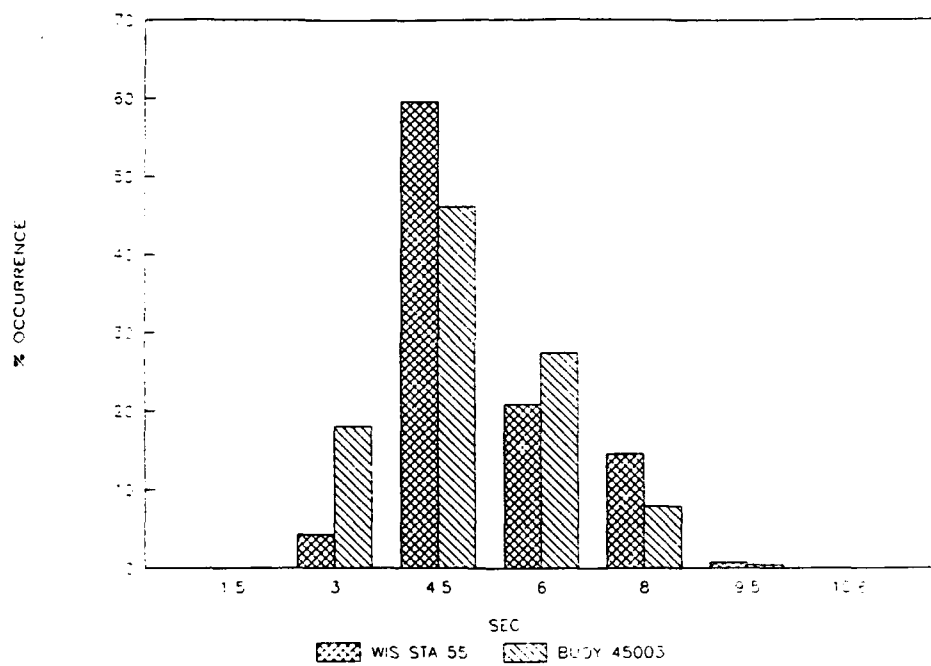


a. Wind speeds



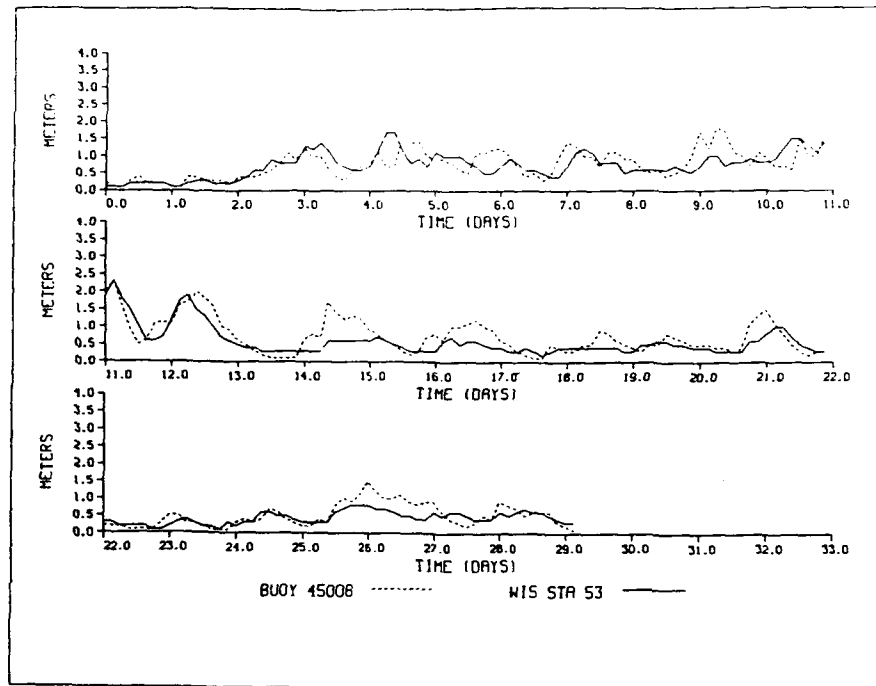
b. Wave heights

Figure 10. Percent distribution histograms of measured and adjusted wind speeds, wave heights, and peak periods for 1980-1986 (Continued)

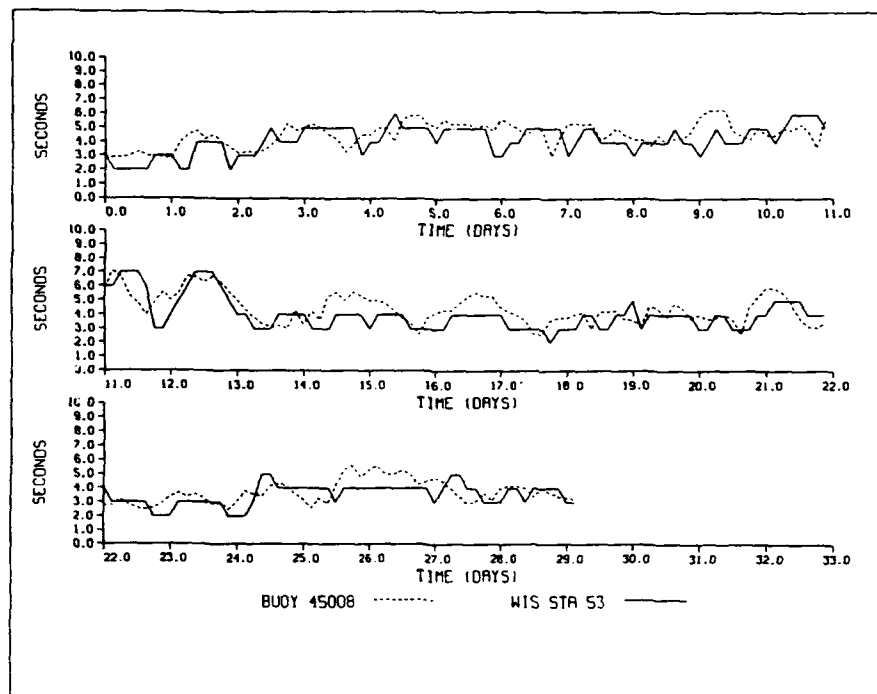


c. Peak periods

Figure 10. (Concluded)

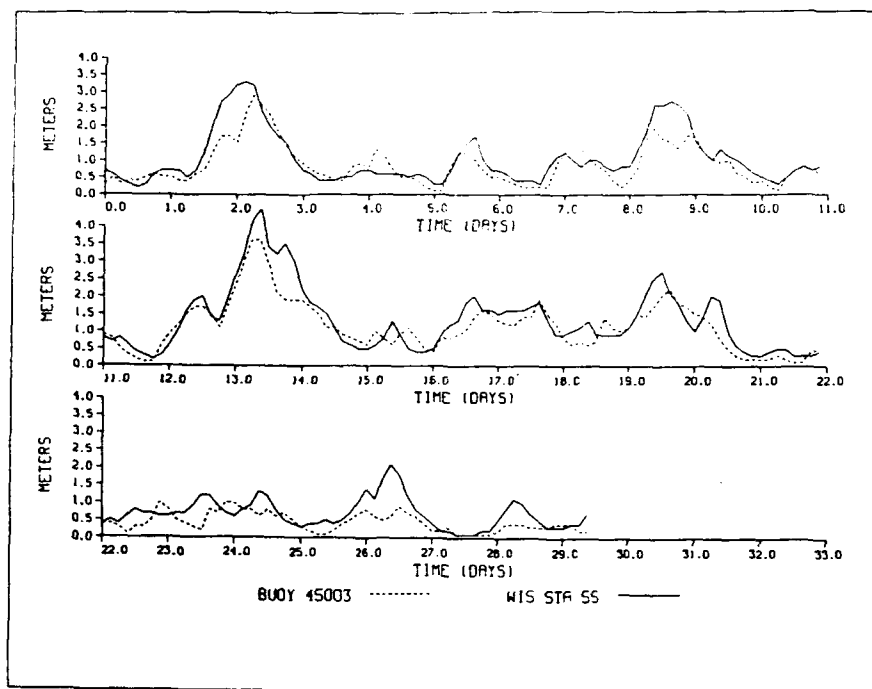


a. Wave heights

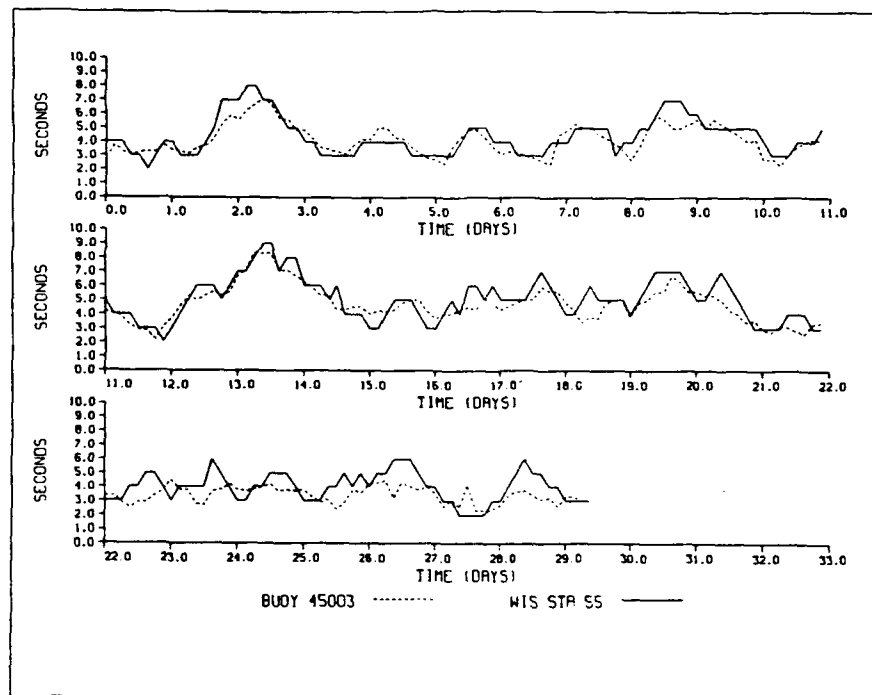


b. Peak periods

Figure 11. Time-series comparison plots of measured versus modeled wave heights and peak periods for September 1986

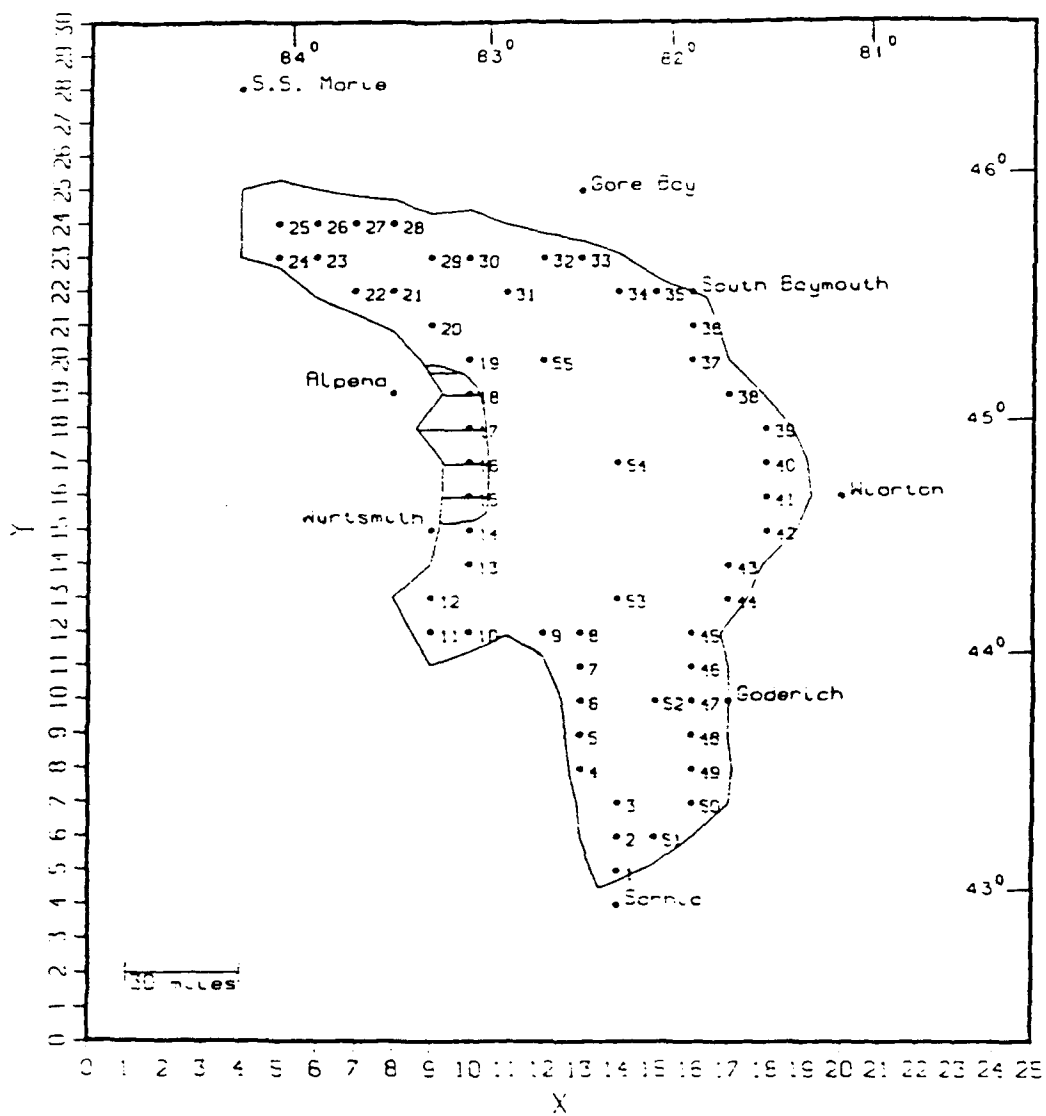


a. Wave heights



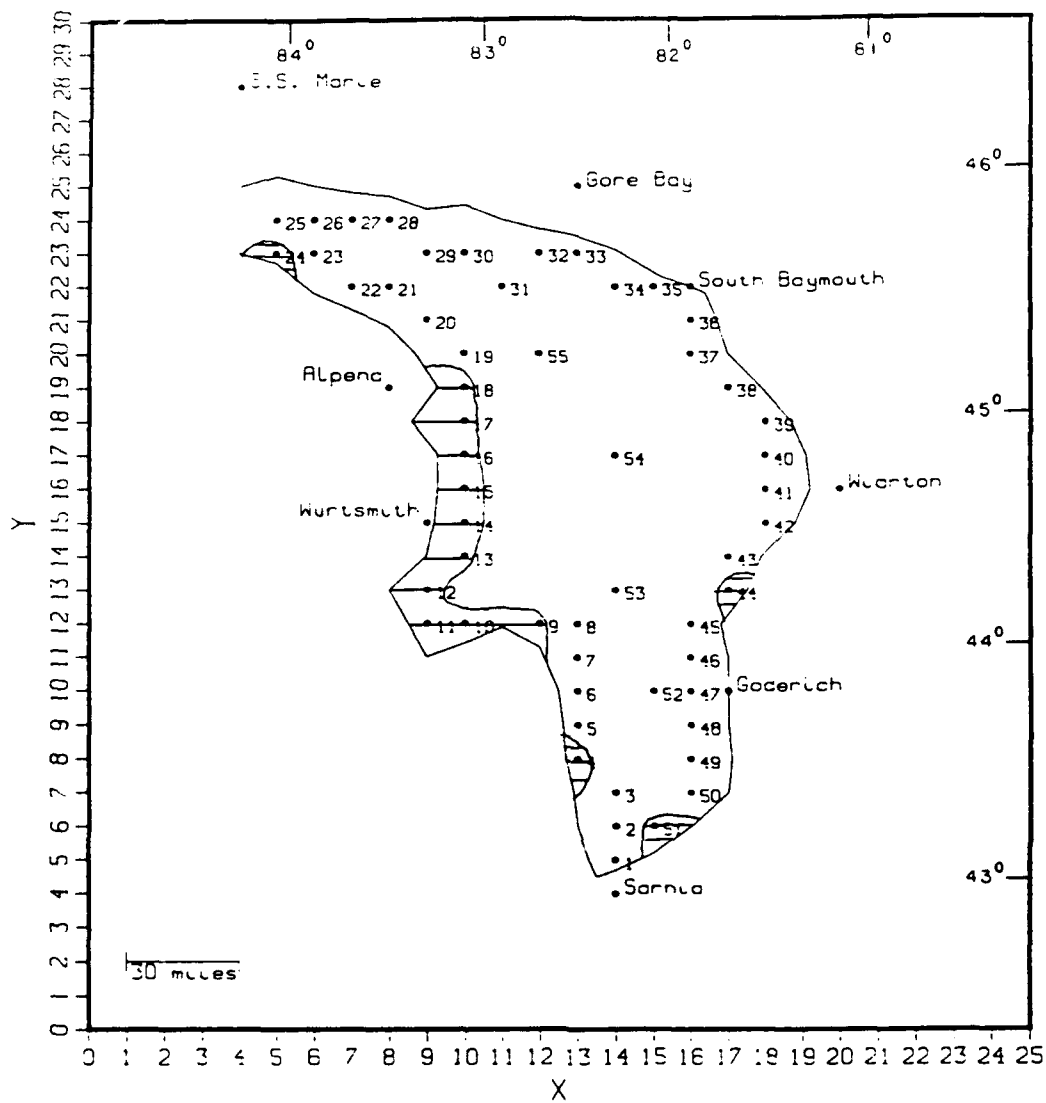
b. Peak periods

Figure 12. Time-series comparison plots of measured versus modeled wave heights and peak periods for April 1983



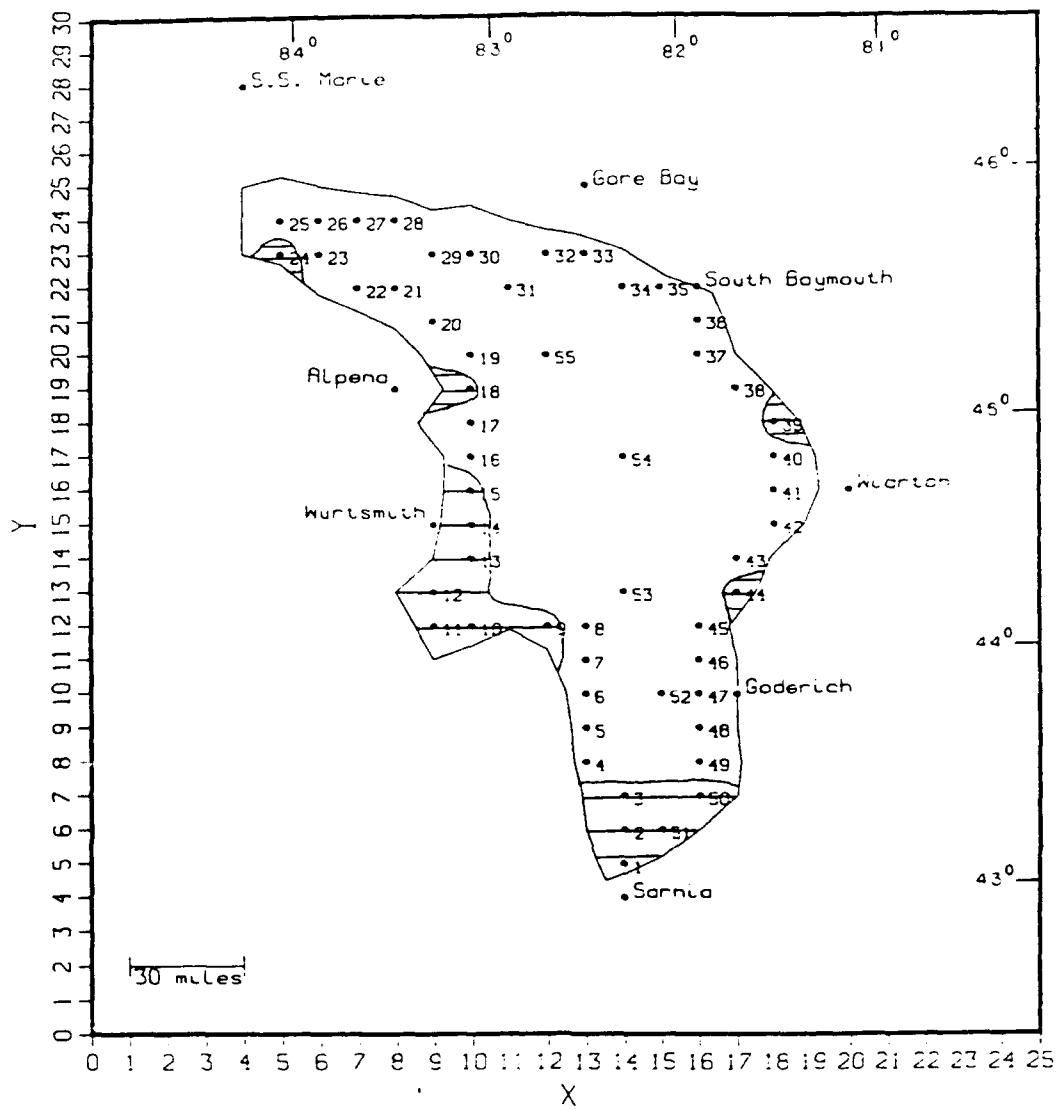
a. 16-31 December

Figure 13. Iced-cover (shaded-region) development and decay on Lake Huron for eight half-month periods (Sheet 1 of 8)



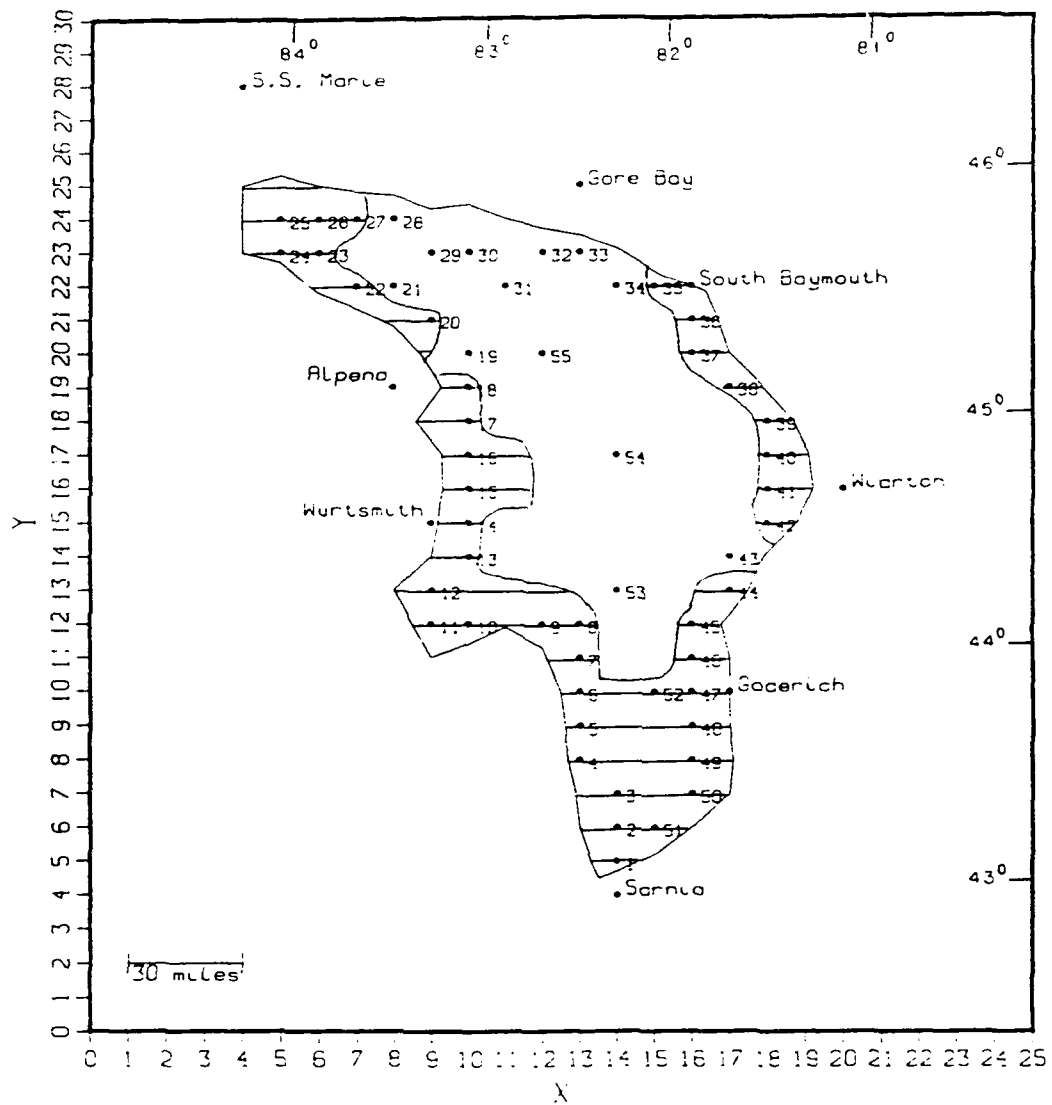
b. 1-15 January

Figure 13. (Sheet 2 of 8)



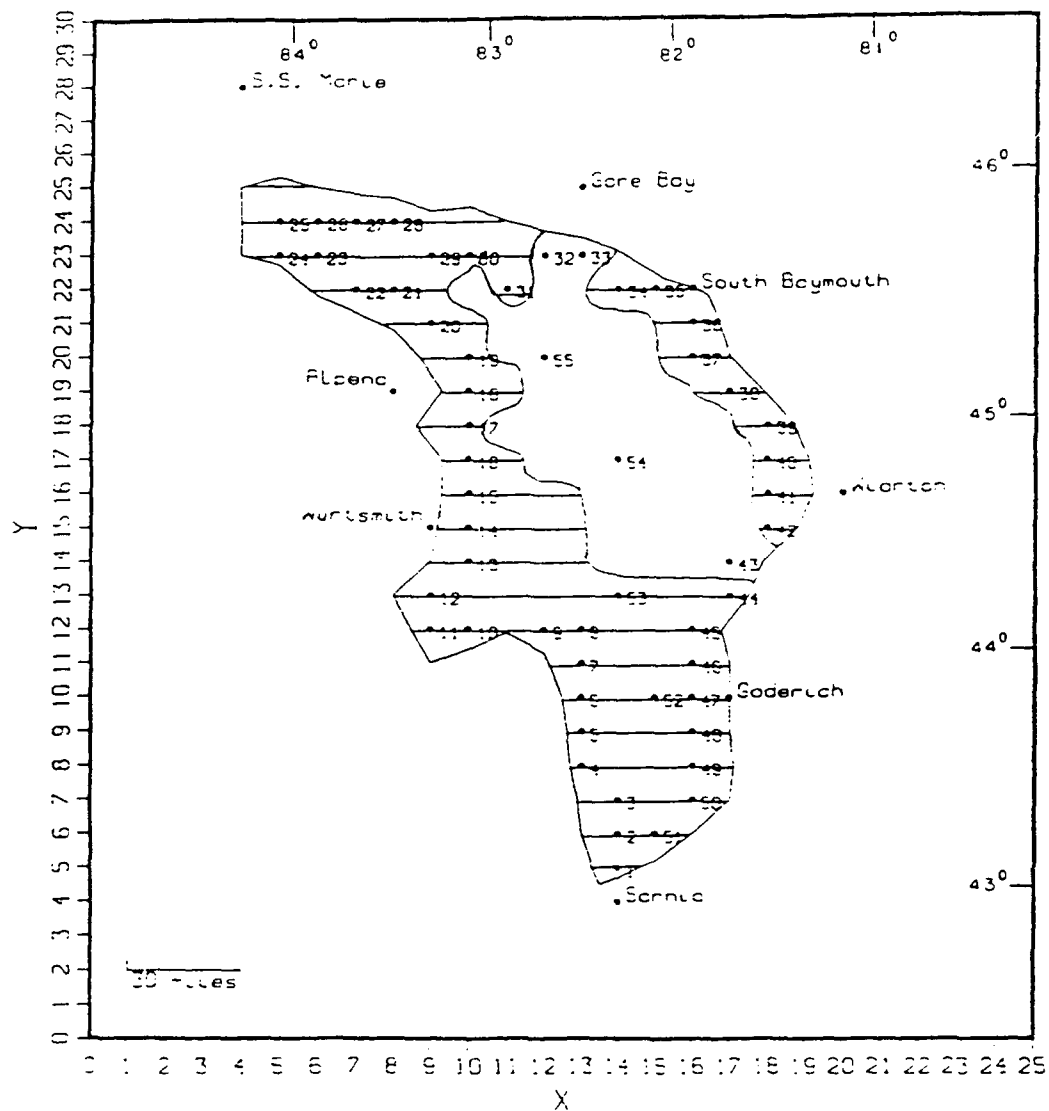
c. 16-31 January

Figure 13. (Sheet 3 of 8)



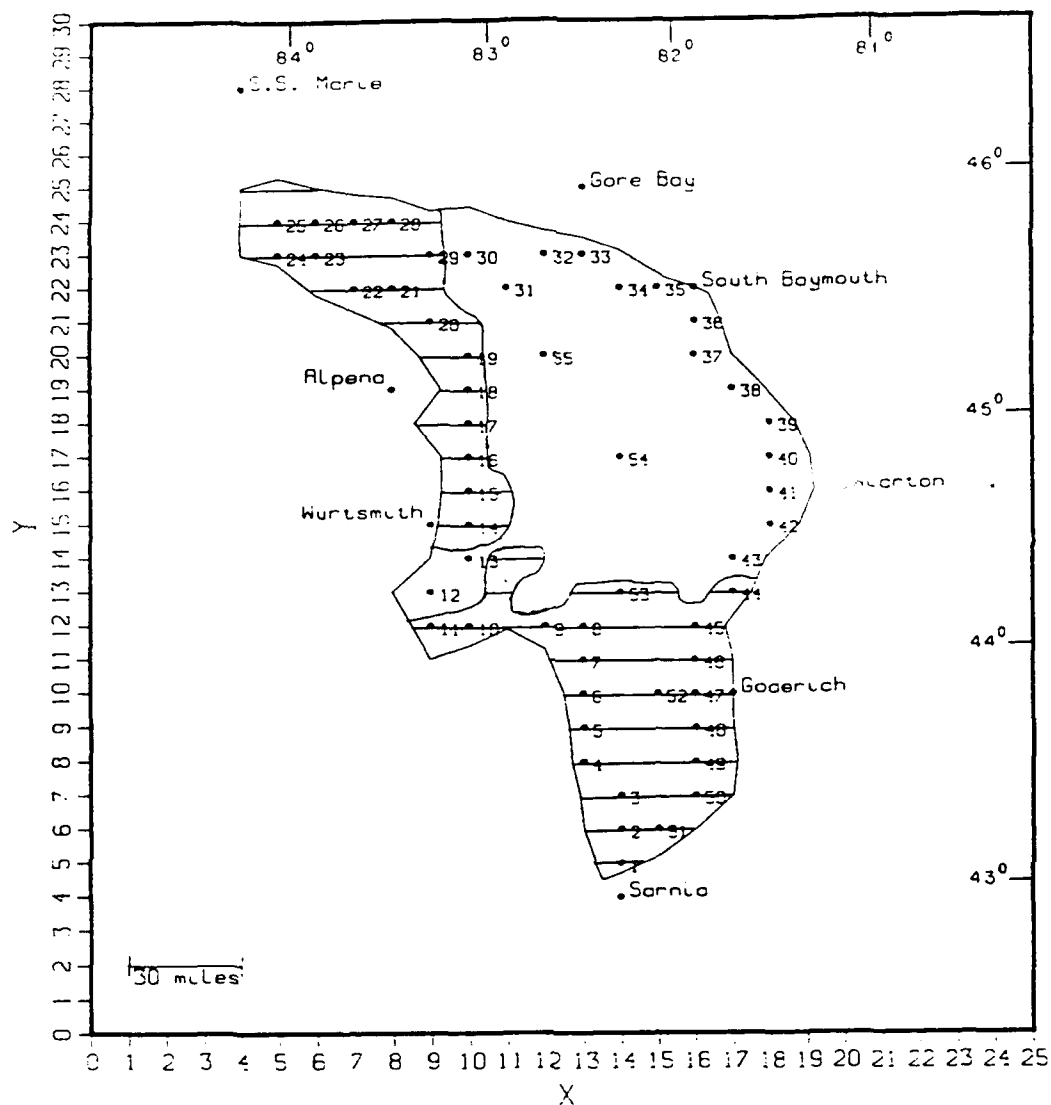
d. 1-14 February

Figure 13. (Sheet 4 of 8)



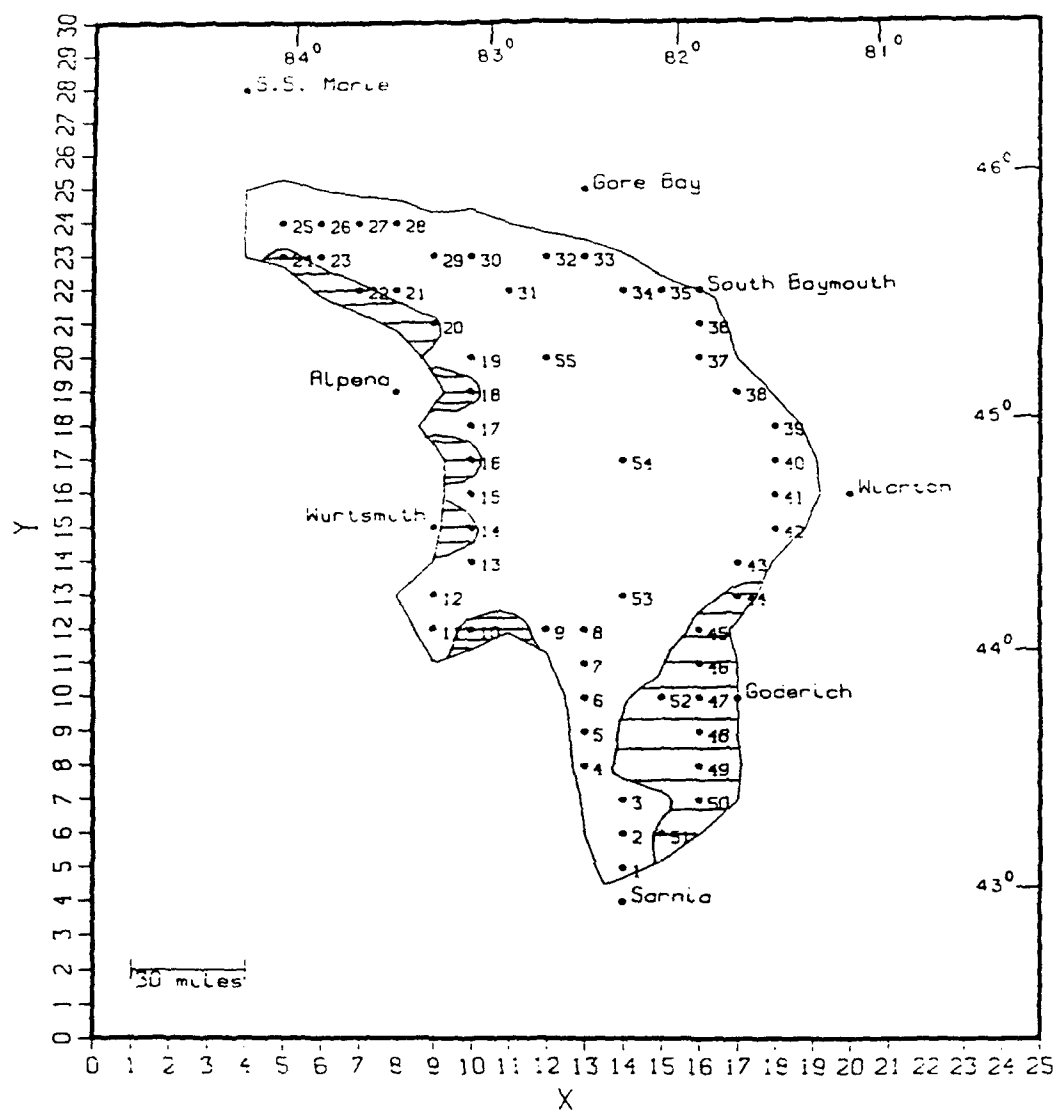
e. 15-28 February

Figure 13. (Sheet 5 of 8)



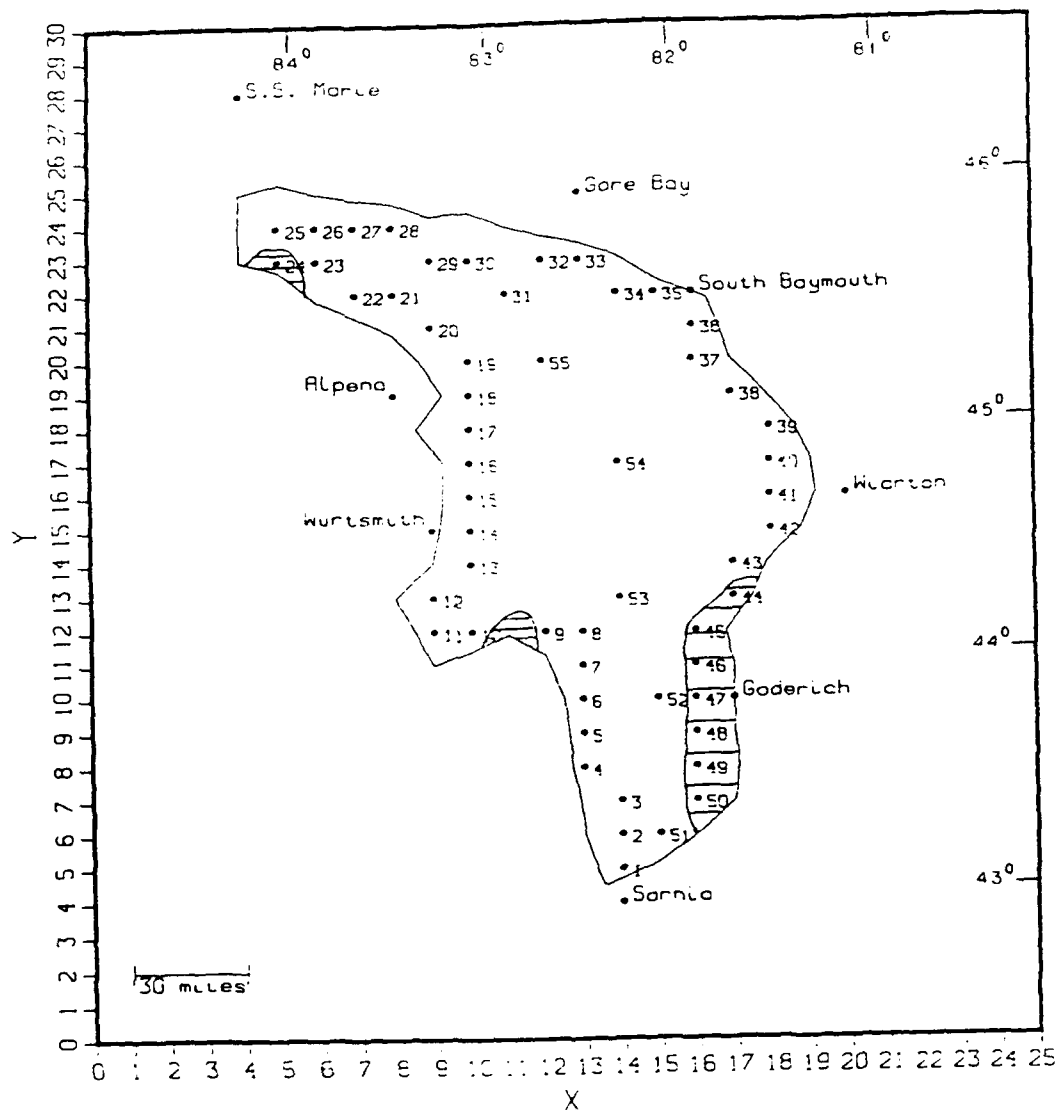
f. 1-15 March

Figure 13. (Sheet 6 of 8)



g. 16-31 March

Figure 13. (Sheet 7 of 8)



h. 1-15 April

Figure 13. (Sheet 8 of 8)

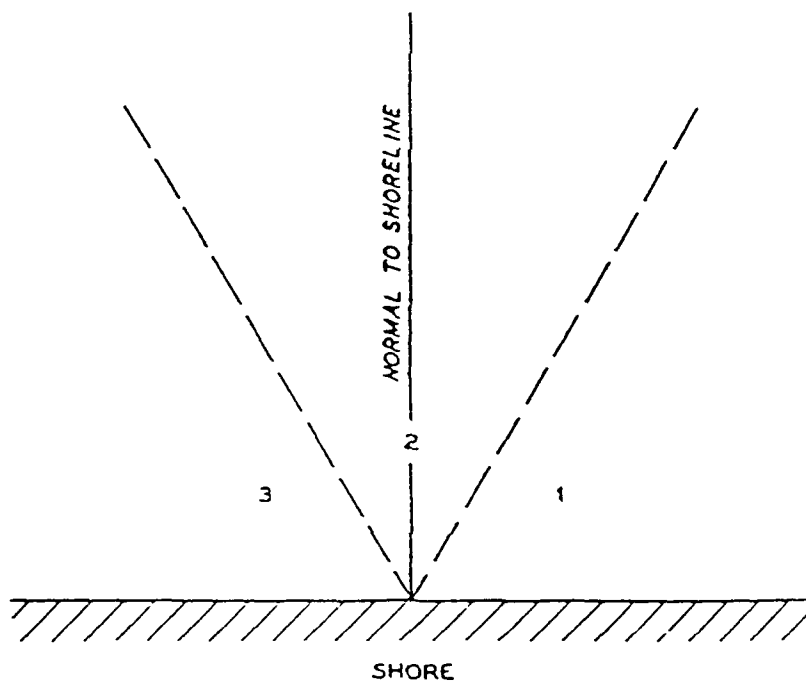
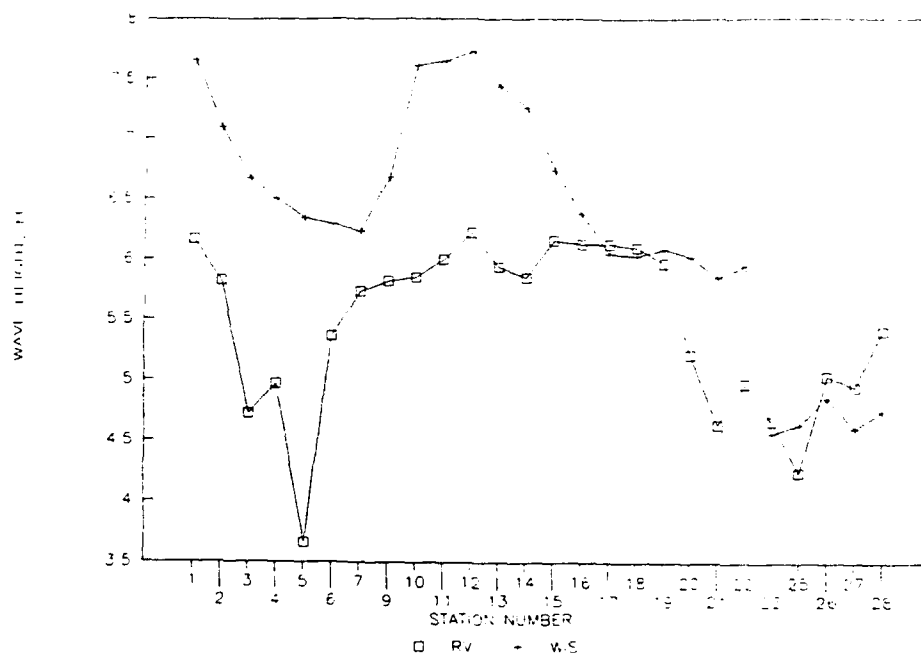
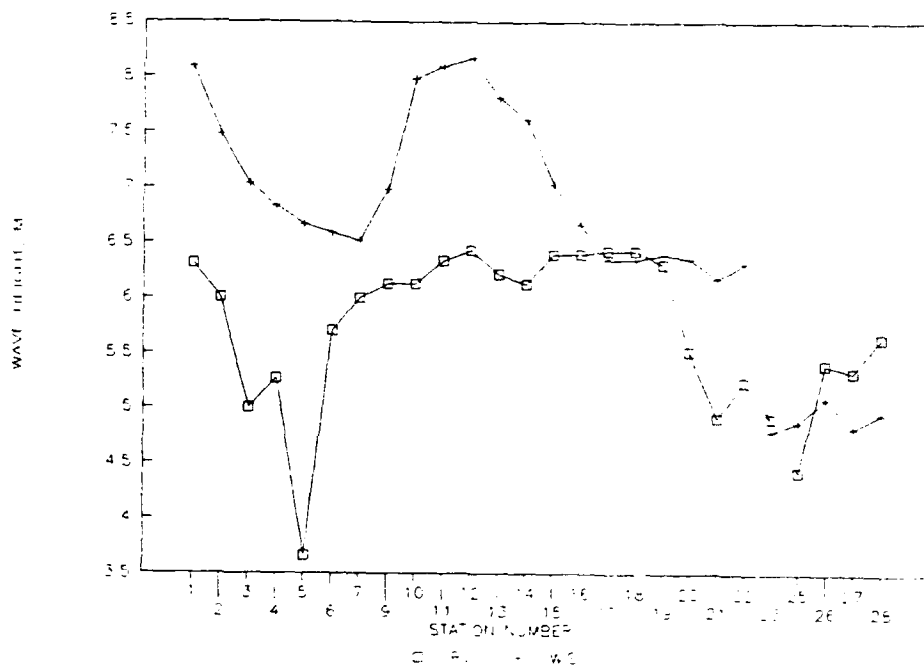


Figure 14. Definition sketch of angle classes

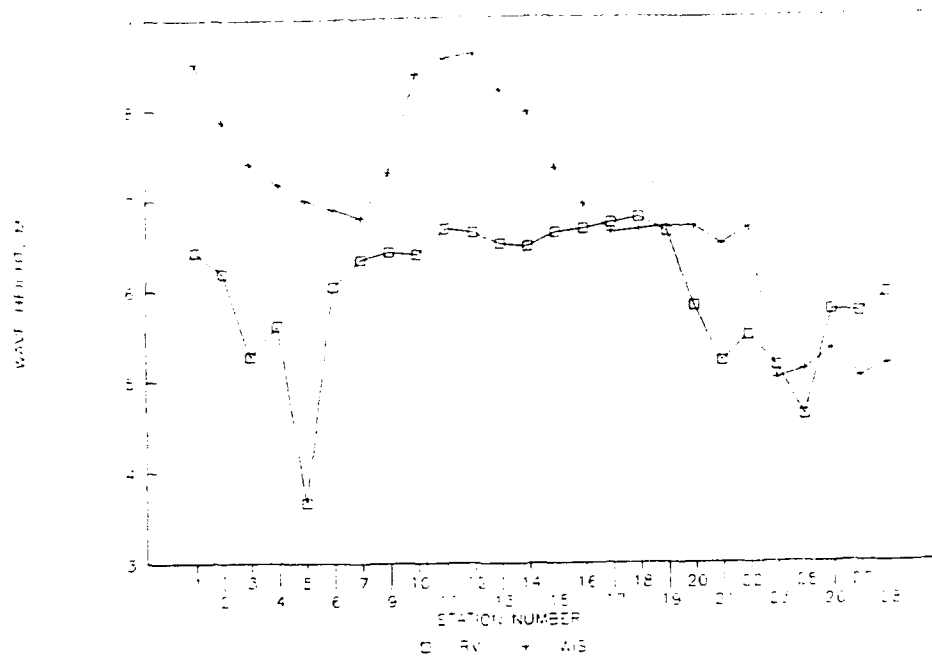


a. 5-year return period

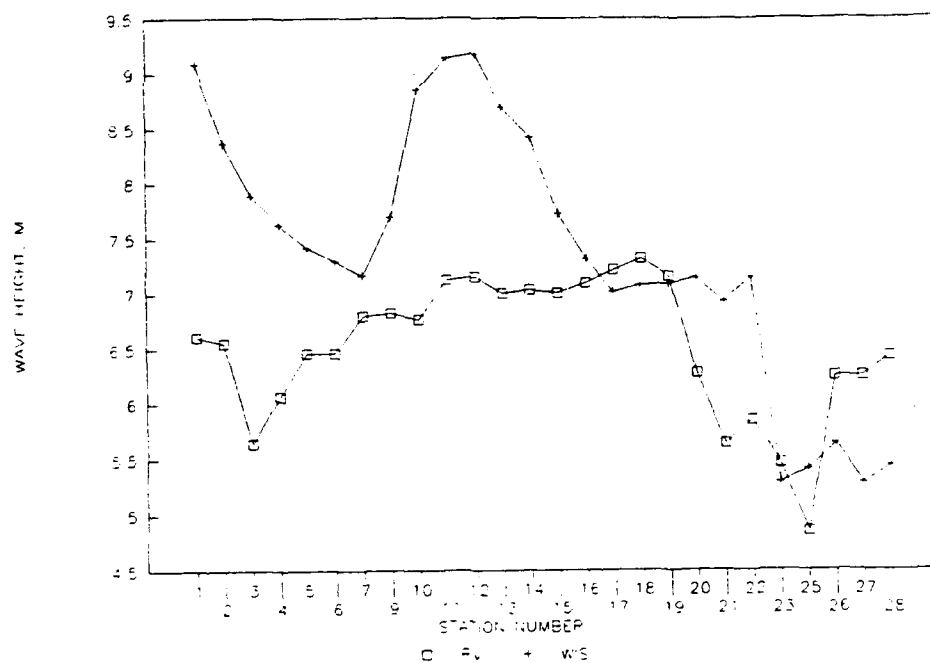


b. 10-year return period

Figure 15. Wave heights for co-located RV and WIS stations for 5-, 10-, 20-, and 50-year return periods (Continued)



c. 20-year return period



d. 50-year return period

Figure 15. (Concluded)

APPENDIX A: SUMMARY TABLES

STATION H01 43.05N 82.32W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PERCENT OCCURRENCE (WITHIN PERIODS)										TOTAL
	PEAK PERIOD (SECONDS)										
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	455	404	205	148	50	10	1	.	.	.	1273
0.50-0.99	.	598	1131	281	167	33	7	.	.	.	2217
1.00-1.49	.	.	392	618	185	102	3	.	.	.	1300
1.50-1.99	.	.	7	560	349	69	36	.	.	.	1021
2.00-2.49	.	.	.	22	505	74	38	3	.	.	642
2.50-2.99	185	219	48	2	1	.	278
3.00-3.49	214	50	7	.	.	209
3.50-3.99	7	58	14	5	2	.	131
4.00-4.49	2	12	5	2	.	131
4.50-4.99	17	19	3	.	85
5.00-5.49	17	26	4	1	48
5.50-5.99	2	28	6	1	37
6.00-6.49	6	11	1	18
6.50-6.99	2	16	.	8
7.00+	13	.	18
TOTAL	455	1002	1735	1629	1448	781	528	106	48	8	
MEAN HS(M) = 1.4	LARGEST HS(M)=			9.5		MEAN TP(SEC)= 5.0		NO. OF CASES=		7261.	

STATION H01 43.05N 82.32W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	380	398	211	121	42	8	1	.	.	.	1161
0.50-0.99	.	567	1190	258	129	26	4	.	.	.	2174
1.00-1.49	.	.	391	637	120	59	4	1	.	.	1212
1.50-1.99	.	.	.	612	299	38	23	.	.	.	975
2.00-2.49	.	.	3	4	460	33	16	1	.	.	514
2.50-2.99	135	73	14	2	.	.	223
3.00-3.49	2	111	9	2	.	.	124
3.50-3.99	38	20	3	.	.	62
4.00-4.49	2	36	4	.	.	47
4.50-4.99	13	4	.	.	10
5.00-5.49	5	2	1	.	4
5.50-5.99	2	.	.	.	6
6.00-6.49	4	2	.	1
6.50-6.99	1	.	2
7.00-7.49
TOTAL	380	965	1795	1632	1187	388	147	26	6	0	
MEAN HS (M) = 1.2	LARGEST HS (M) = 7.1		MEAN TP (SEC) = 4.6		NO. OF CASES = 6124.						

STATION H01 43.05N 82.32W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	480	464	274	121	38	8	1	.	.	.	1386
0.50-0.99	.	440	850	204	120	21	1	.	.	.	1636
1.00-1.49	.	.	247	345	57	43	1	.	.	.	696
1.50-1.99	.	.	.	324	86	8	8	.	.	.	427
2.00-2.49	.	.	1	10	243	5	8	.	.	.	266
2.50-2.99	99	24	9	1	.	.	133
3.00-3.49	1	64	3	3	.	.	71
3.50-3.99	41	3	2	.	.	46
4.00-4.49	1	13	.	.	.	14
4.50-4.99	6	.	.	.	6
5.00-5.49	1	.	.	1
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	480	904	1372	1004	644	215	56	7	0	0	
MEAN HS(M) = 1.0	LARGEST HS(M)=		5.4	MEAN TP(SEC)=		4.3	NO. OF CASES=		4394.		

STATION H01 43.05N 82.32W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	399	436	238	147	36	2	.	.	.	.	1258
0.50-0.99	.	454	377	168	110	20	.	.	.	.	1131
1.00-1.49	.	.	163	120	33	28	3	.	.	.	350
1.50-1.99	.	.	27	102	26	6	3	2	.	.	166
2.00-2.49	.	.	.	11	31	3	1	.	.	.	51
2.50-2.99	25	6	2	.	.	.	33
3.00-3.49	1	4	.	.	.	.	6
3.50-3.99	5	.	.	.	.	5
4.00-4.49	2	.	.	.	2
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	399	890	805	548	262	74	20	3	0	0	
MEAN HS(M) = 0.7 LARGEST HS(M)= 4.5 MEAN TP(SEC)= 3.9 NO. OF CASES= 2820.											

STATION H01 43.05N 82.32W AZIMUTH(DEGREES) = 90.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	466	484	302	164	35	5					1456
0.50-0.99		797	178	179	146	31	2				1333
1.00-1.49			190	37	44	28	7	1			307
1.50-1.99			44	20	7	10	5				86
2.00-2.49				10	1	3	1				15
2.50-2.99					1		1				2
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	466	1281	714	410	234	77	16	1	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.9 MEAN TP(SEC)= 3.7 NO. OF CASES= 3003.

STATION H01 43.05N 82.32W AZIMUTH(DEGREES) = 112.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	542	410	243	145	41	7					1388
0.50-0.99		890	228	137	99	28	4				1386
1.00-1.49			251	5	18	7	6				287
1.50-1.99			37	14	3	2	3	1			101
2.00-2.49				1							14
2.50-2.99					2						2
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	542	1300	759	357	164	44	13	1	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.3 MEAN TP(SEC)= 3.5 NO. OF CASES= 2985.

STATION H01 43.05N 82.32W AZIMUTH(DEGREES) = 135.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	787	501	306	191	51	11	1				1848
0.50-0.99		1228	549	63	80	27	3				1950
1.00-1.49			366	10	10	6	3				387
1.50-1.99			4	131	6	4					139
2.00-2.49				19							23
2.50-2.99				1							2
3.00-3.49					2						0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	787	1729	1225	407	150	48	7	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.2 MEAN TP(SEC)= 3.4 NO. OF CASES= 4080.

STATION H01 43.05N 82.32W AZIMUTH(DEGREES) = 157.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1032	812	335	182	62	17	2				2442
0.50-0.99		1705	463	88	56	19	6				2337
1.00-1.49			368	9	9	4	1				382
1.50-1.99			16	101	2	1					120
2.00-2.49				6	1						7
2.50-2.99					3						3
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	1032	2517	1182	377	131	42	10	0	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.8 MEAN TP(SEC)= 3.3 NO. OF CASES= 4956.

STATION H01 43.05N 82.32W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1709	1378	386	280	120	16	2				3891
0.50-0.99		3185	628	139	89	25	10	1			4077
1.00-1.49			806	2	4	4					820
1.50-1.99			163	122		1					286
2.00-2.49				45							45
2.50-2.99				1	5						6
3.00-3.49											0
3.50-3.99					1						1
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	1709	4563	1983	589	219	46	16	1	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.7 MEAN TP(SEC)= 3.3 NO. OF CASES= 8543.

STATION H01 43.05N 82.32W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1337	1194	294	294	136	27					3282
0.50-0.99		3553	1398	102	89	38	19				5199
1.00-1.49			1458	2	12	4					1476
1.50-1.99			114	504	1						619
2.00-2.49				88	11						99
2.50-2.99				1	22						23
3.00-3.49					3						3
3.50-3.99					1	1					2
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	1337	4747	3264	989	264	79	23	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.5 MEAN TP(SEC)= 3.5 NO. OF CASES= 10020.

STATION H01 43.05N 82.32W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	973	732	332	279	139	38	5				2498
0.50-0.99		2071	1311	116	126	59	14	2			3699
1.00-1.49			1032	2	9	13	5				1061
1.50-1.99			11	439	1						451
2.00-2.49				84	14						98
2.50-2.99					40						40
3.00-3.49					8						8
3.50-3.99					1	2					3
4.00-4.49						1					0
4.50-4.99											1
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	973	2803	2686	920	338	113	24	2	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 4.7 MEAN TP(SEC)= 3.7 NO. OF CASES= 7360.

STATION H01 43.05N 82.32W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	727	700	222	202	113	34	1	2			2001
0.50-0.99		1873	802	151	171	86	42	4			3129
1.00-1.49			856	2	27	36	19	1			941
1.50-1.99			80	287	9	3	3				373
2.00-2.49				78							87
2.50-2.99					18						18
3.00-3.49					11						11
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	727	2573	1960	720	349	159	65	7	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.3 MEAN TP(SEC)= 3.7 NO. OF CASES= 6144.

STATION H01 43.05N 82.32W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	715	658	239	183	127	31	6	.	.	.	1959
0.50-0.99	.	2245	678	260	254	179	51	2	2	.	3571
1.00-1.49	.	.	919	22	66	75	59	3	2	.	1146
1.50-1.99	.	.	226	163	6	29	24	3	1	.	452
2.00-2.49	.	.	.	98	.	2	6	1	.	.	107
2.50-2.99	.	.	.	2	18	.	4	.	.	.	24
3.00-3.49	3	.	1	.	.	.	4
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	715	2903	2062	728	474	316	151	9	5	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.3 MEAN TP(SEC)= 3.9 NO. OF CASES= 6900.

STATION H01 43.05N 82.32W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	626	573	174	144	78	19	5	.	.	.	1619
0.50-0.99	.	1853	678	239	278	130	51	5	.	.	3234
1.00-1.49	.	.	977	48	121	125	66	4	2	.	1343
1.50-1.99	.	.	221	272	26	50	68	9	1	.	647
2.00-2.49	.	.	.	112	9	7	31	10	1	.	170
2.50-2.99	.	.	.	2	19	1	13	5	2	.	42
3.00-3.49	5	.	1	2	2	.	10
3.50-3.99	1	.	.	1	.	.	2
4.00-4.49	1	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	626	2426	2050	817	537	332	235	36	9	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.0 MEAN TP(SEC)= 4.1 NO. OF CASES= 6623.

STATION H01 43.05N 82.32W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	386	409	189	157	70	16	1	.	.	.	1228
0.50-0.99	.	1456	850	281	242	122	22	2	.	.	2975
1.00-1.49	.	.	1059	182	199	174	71	6	.	.	1691
1.50-1.99	.	.	189	733	109	83	84	4	2	.	1204
2.00-2.49	.	.	.	252	63	45	100	6	.	.	466
2.50-2.99	.	.	.	11	104	13	56	11	.	.	195
3.00-3.49	42	2	27	12	3	.	86
3.50-3.99	6	1	6	6	3	1	23
4.00-4.49	7	.	3	2	.	12
4.50-4.99	2	2
5.00-5.49	1	1	2	1	5
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	386	1865	2287	1616	835	463	368	51	12	4	

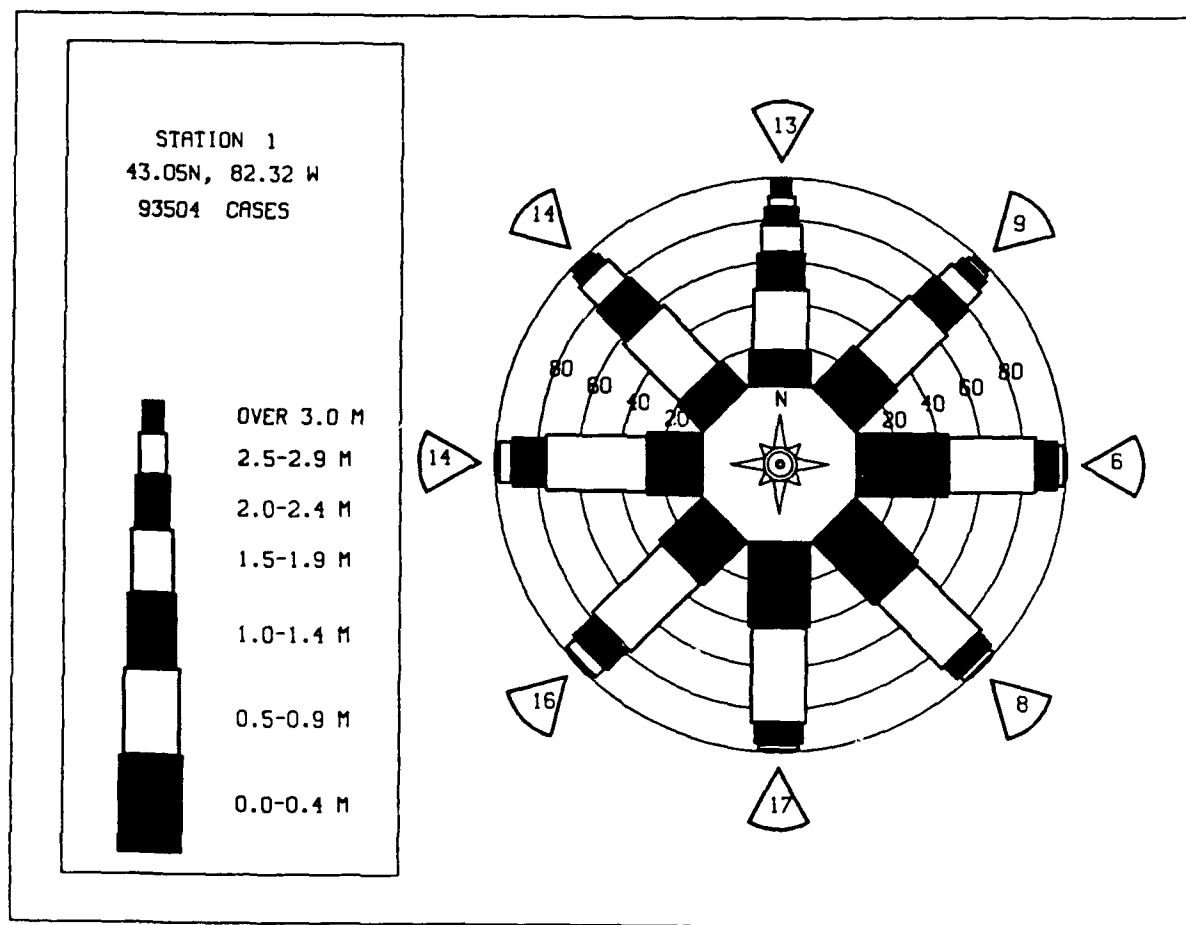
MEAN HS(M) = 1.1 LARGEST HS(M)= 5.3 MEAN TP(SEC)= 4.5 NO. OF CASES= 7397.

STATION H01 43.05N 82.32W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	376	289	174	116	44	10	5	.	.	.	1014
0.50-0.99	.	669	639	221	199	47	31	.	.	.	1786
1.00-1.49	.	.	396	268	164	113	38	1	.	.	980
1.50-1.99	.	.	48	319	137	73	53	4	.	.	635
2.00-2.49	.	.	.	82	172	34	58	3	1	.	351
2.50-2.99	.	.	.	6	81	63	36	5	.	.	191
3.00-3.49	9	67	26	4	2	.	107
3.50-3.99	4	22	24	3	2	1	36
4.00-4.49	1	2	24	3	2	.	31
4.50-4.99	11	5	2	.	18
5.00-5.49	1	.	.	12
5.50-5.99	1	.	.	5
6.00-6.49	3	1	4
6.50-6.99	2	.	.
7.00+
TOTAL	376	958	1257	1012	811	433	290	49	17	5	

MEAN HS(M) = 1.2 LARGEST HS(M)= 7.9 MEAN TP(SEC)= 4.7 NO. OF CASES= 4894.

STATION H01 43.05N 82.32W FOR ALL DIRECTIONS											
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1139	985	413	288	118	26	3				2972
0.50-0.99		2359	1195	289	236	89	25	1			4194
1.00-1.49			987	229	107	83	30				1437
1.50-1.99			119	475	105	38	31	2			770
2.00-2.49				94	153	21	26				296
2.50-2.99				2	76	40	18	2			138
3.00-3.49					10	46	11	3			70
3.50-3.99					1	17	19	2			39
4.00-4.49						1	19	1			21
4.50-4.99							9	2			11
5.00-5.49							2				6
5.50-5.99								4			4
6.00-6.49								1	1		2
6.50-6.99									1		1
7.00+									1		1
TOTAL	1139	3344	2714	1377	806	361	193	25	3	0	
MEAN HS(M)= 0.8 LARGEST HS(M)= 9.5 MEAN TP(SEC)= 4.0 TOTAL CASES= 93504.											



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H01 (43.05N 82.32W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	0.9	0.6	0.8	0.7	0.7	0.5	0.4	0.4	0.5	0.7	0.8	0.7	0.6
1957	0.8	0.7	0.6	0.6	0.7	0.5	0.4	0.4	0.5	0.7	0.9	0.8	0.7
1958	1.0	1.3	0.7	0.8	0.7	0.8	0.7	0.7	0.8	1.0	1.0	0.9	0.8
1959	1.0	1.1	0.9	1.0	0.9	0.7	0.5	0.6	0.8	1.0	1.0	1.1	0.8
1960	0.9	1.3	1.0	0.7	0.7	0.5	0.5	0.4	0.7	0.6	0.8	0.7	0.7
1961	0.9	0.8	1.1	0.8	0.7	0.5	0.5	0.5	0.7	0.5	0.8	0.9	0.7
1962	0.8	0.8	0.8	0.8	0.6	0.4	0.5	0.5	0.6	0.7	0.7	0.7	0.7
1963	0.9	0.8	1.1	0.9	0.8	0.6	0.5	0.6	0.6	0.7	0.7	0.8	0.8
1964	1.0	1.1	0.9	0.7	0.6	0.6	0.5	0.6	0.6	0.9	0.8	0.8	0.7
1965	0.9	0.7	0.8	0.7	0.7	0.4	0.5	0.5	0.7	0.8	0.7	0.7	0.7
1966	0.9	1.1	1.4	1.3	1.1	0.9	0.8	0.8	0.7	0.8	1.4	1.4	1.1
1967	1.0	1.1	1.0	1.3	0.9	0.8	0.5	0.5	0.9	1.0	1.0	1.2	1.0
1968	0.9	1.4	1.2	1.3	1.2	1.0	0.8	0.8	1.0	1.0	1.4	1.2	1.1
1969	1.2	1.6	1.3	1.3	1.2	0.8	0.9	0.7	0.7	0.6	1.2	0.9	1.0
1970	0.9	1.0	1.3	1.1	0.9	1.2	0.6	0.6	0.9	0.9	0.9	0.8	0.8
1971	1.1	1.0	1.1	1.1	0.8	0.6	0.6	0.5	0.6	0.6	0.9	0.9	0.8
1972	0.6	0.9	1.2	1.2	0.9	0.8	0.6	0.5	0.7	0.8	0.8	0.9	0.8
1973	0.9	0.9	1.0	1.5	0.6	0.6	0.5	0.5	0.6	0.8	0.8	0.9	0.8
1974	1.1	1.1	1.1	1.2	1.0	0.7	0.8	0.7	0.8	0.9	0.8	0.9	0.8
1975	0.9	1.0	1.1	1.0	0.9	0.9	0.6	0.5	0.5	0.8	0.8	1.0	0.8
1976	1.1	1.1	1.1	1.2	1.0	0.7	0.8	0.7	0.8	0.9	0.8	0.9	0.8
1977	0.9	1.0	1.1	1.0	0.9	0.9	0.6	0.5	0.5	0.8	0.8	0.9	0.8
1978	1.2	0.8	0.9	1.4	1.1	1.0	0.9	0.7	0.9	1.1	0.9	1.0	1.0
1979	1.1	1.3	0.8	1.0	0.9	0.8	0.5	0.6	0.7	0.7	0.7	1.1	1.1
1980	0.9	1.0	1.3	1.1	0.8	0.9	0.6	0.5	0.7	0.8	1.0	1.1	1.0
1981	0.9	1.1	1.3	1.2	1.3	0.8	0.8	0.6	0.9	0.9	0.9	1.0	0.9
1982	1.4	1.1	1.0	1.4	0.6	0.8	0.6	0.7	0.5	0.6	0.9	1.0	0.9
1983	1.0	0.8	1.3	1.2	1.1	0.6	0.7	0.6	0.7	0.9	1.5	1.1	1.1
1984	0.9	1.2	1.4	1.1	1.0	0.8	0.7	0.6	0.6	0.6	0.8	0.8	0.8
1985	1.2	1.0	1.3	1.1	1.1	1.0	0.8	0.6	0.8	0.8	1.1	1.0	1.0
1986	1.3	0.9	1.1	1.2	1.0	1.0	0.9	0.8	0.7	0.7	1.0	0.8	0.9
1987	0.6	0.5	0.6	0.7	0.5	0.4	0.4	0.4	0.4	0.5	0.7	0.8	0.6
MEAN	1.0	1.0	1.0	1.0	0.9	0.7	0.6	0.6	0.7	0.8	0.9	0.9	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H01 (43.05N 82.32W)

YEAR	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.6	2.7	3.8	2.4	2.2	1.7	1.5	1.2	1.6	2.5	2.9	1.9	
1957	2.8	2.7	2.0	2.1	2.4	2.2	1.9	2.1	2.8	4.0	2.2	2.2	
1958	4.9	6.7	2.5	3.7	2.5	2.8	2.0	2.4	2.3	2.4	3.1	3.1	
1959	3.5	3.8	3.2	2.8	3.2	3.1	1.6	2.5	2.7	4.1	3.2	4.1	
1960	3.4	5.6	4.7	3.0	5.4	3.0	2.5	1.4	2.0	2.6	2.7	4.1	
1961	4.3	3.6	6.3	2.8	2.7	2.6	2.4	1.8	2.7	3.0	3.7	2.3	
1962	3.6	2.8	2.5	4.2	1.9	2.1	2.6	1.6	3.7	1.9	3.5	5.8	
1963	3.4	4.1	3.7	5.0	4.3	1.7	2.0	2.7	4.5	1.8	4.9	2.7	
1964	2.8	2.8	3.7	4.5	2.7	1.9	2.4	2.2	1.7	2.0	1.9	3.4	
1965	3.2	7.0	2.9	2.5	2.1	2.8	1.6	2.5	1.6	3.4	3.8	4.4	
1966	3.4	2.4	2.8	2.8	2.4	1.4	2.2	2.6	2.2	2.6	4.5	2.6	
1967	4.5	4.0	2.6	3.7	2.8	1.4	1.7	2.1	2.5	3.6	2.2	2.6	
1968	9.5	5.0	6.3	3.2	3.1	6.2	2.0	2.5	4.4	2.7	6.0	4.9	
1969	2.6	3.8	3.5	5.4	2.7	2.1	2.5	2.2	4.2	3.9	4.9	3.6	
1970	2.9	5.6	3.5	5.3	4.8	4.2	3.2	2.8	3.2	3.8	4.5	6.7	
1971	4.3	7.0	3.5	6.5	4.5	3.5	2.9	2.5	3.1	1.8	6.9	2.8	
1972	2.7	3.0	5.4	3.2	3.4	7.0	2.5	2.0	3.8	3.6	4.5	3.6	
1973	7.0	4.8	5.4	3.7	2.2	1.6	2.7	2.9	3.4	2.3	3.8	3.6	
1974	2.4	3.1	4.2	3.9	3.0	2.9	2.4	1.1	2.2	3.8	4.3	4.7	
1975	3.7	2.4	4.3	7.4	3.0	2.4	2.0	1.7	2.5	3.7	4.0	5.5	
1976	3.6	4.1	2.9	5.6	3.2	2.4	3.5	2.9	2.6	3.6	3.2	2.9	
1977	2.7	2.8	3.7	4.5	7.0	4.0	2.8	1.8	1.8	3.4	4.9	3.8	
1978	4.1	4.5	3.3	5.0	4.7	5.0	3.1	3.0	4.3	4.1	4.7	2.8	
1979	3.7	4.6	3.3	3.6	5.4	3.8	2.2	2.8	3.5	2.9	3.1	7.6	
1980	3.1	4.2	3.4	5.7	3.8	4.9	2.4	2.1	3.2	2.4	3.3	7.4	
1981	3.4	5.4	3.7	4.3	6.1	2.4	3.2	3.2	3.6	3.1	3.4	5.5	
1982	4.7	4.2	3.3	6.5	2.5	3.7	1.8	2.2	1.9	2.9	4.2	3.4	
1983	3.7	3.0	6.1	4.4	5.9	1.9	3.1	2.8	2.1	3.6	8.2	5.2	
1984	3.7	8.5	5.7	4.9	4.3	2.8	2.5	2.7	2.4	2.2	5.7	2.4	
1985	3.5	3.2	3.7	4.0	4.1	2.7	2.2	2.4	2.6	3.0	3.7	3.4	
1986	5.5	5.1	3.7	4.5	3.0	4.2	2.7	2.9	2.9	2.4	3.9	2.6	
1987	1.8	3.9	3.6	3.6	1.6	1.2	1.3	1.3	1.4	1.4	2.1	1.9	

32 YR. STATISTICS FOR WIS STATION H01

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.8
MEAN PEAK WAVE PERIOD	(SECONDS)	4.0
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	202.5
STANDARD DEVIATION OF WAVE HS	(METERS)	0.7
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.4
LARGEST WAVE HS	(METERS)	9.5
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	5.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		68011518

STATION H02 43.18N 82.32W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	458	469	217	158	44	8	7	.	.	.	1354
0.50-0.99	.	619	1041	280	152	28	7	.	.	.	2127
1.00-1.49	.	.	484	490	197	84	4	.	.	.	1259
1.50-1.99	.	.	A	606	272	77	25	.	.	.	988
2.00-2.49	.	.	.	24	452	59	32	.	.	.	567
2.50-2.99	148	159	45	2	.	.	354
3.00-3.49	6	183	39	6	.	.	234
3.50-3.99	59	95	8	1	.	163
4.00-4.49	4	80	7	2	.	93
4.50-4.99	42	13	1	.	56
5.00-5.49	13	29	3	.	45
5.50-5.99	2	7	7	1	16
6.00-6.49	8	8	8	1	17
6.50-6.99	2	3	7	2	5
7.00+	3	9
TOTAL	458	1088	1750	1558	1271	661	384	82	32	3	

MEAN HS(M) = 1.3 LARGEST HS(M)= 9.1 MEAN TP(SEC)= 4.9 NO. OF CASES= 5840.

STATION H02 43.18N 82.32W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	411	456	198	139	36	7	1	.	.	.	1248
0.50-0.99	.	616	1115	202	134	22	3	.	.	.	2092
1.00-1.49	.	.	469	571	130	45	2	1	.	.	1218
1.50-1.99	.	.	2	654	202	52	18	.	.	.	928
2.00-2.49	.	.	.	12	358	29	18	.	.	.	417
2.50-2.99	112	60	12	.	.	.	184
3.00-3.49	4	69	12	2	.	.	87
3.50-3.99	33	17	6	.	.	56
4.00-4.49	3	19	3	.	.	25
4.50-4.99	12	5	.	.	17
5.00-5.49	4	5	1	.	10
5.50-5.99	1	2	1	.	4
6.00-6.49	1	2	.	3
6.50-6.99	1	.	1
7.00+	0	0
TOTAL	411	1072	1784	1578	976	320	119	25	5	0	

MEAN HS(M) = 1.1 LARGEST HS(M)= 6.7 MEAN TP(SEC)= 4.5 NO. OF CASES= 5899.

STATION H02 43.18N 82.32W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	474	520	234	125	34	9	.	.	.	.	1396
0.50-0.99	.	561	844	220	127	19	3	.	.	.	1774
1.00-1.49	.	.	320	349	172	35	4	.	.	.	781
1.50-1.99	.	.	.	367	170	20	9	.	.	.	506
2.00-2.49	.	.	.	6	271	8	11	.	.	.	296
2.50-2.99	96	28	14	1	.	.	140
3.00-3.49	5	60	18	3	.	.	76
3.50-3.99	36	4	2	.	.	42
4.00-4.49	5	10	.	.	.	15
4.50-4.99	6	.	.	.	6
5.00-5.49	1	.	.	1
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	474	1081	1398	1067	715	222	69	7	0	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.0 MEAN TP(SEC)= 4.3 NO. OF CASES= 4724.

STATION H02 43.18N 82.32W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	373	430	174	126	24	1	.	.	.	.	1128
0.50-0.99	.	515	473	133	117	14	.	.	.	.	1252
1.00-1.49	.	.	262	157	21	24	2	.	.	.	466
1.50-1.99	.	.	1	218	25	5	6	.	.	.	255
2.00-2.49	.	.	.	20	72	2	4	1	.	.	99
2.50-2.99	32	9	2	.	.	.	43
3.00-3.49	1	10	.	1	.	.	12
3.50-3.99	4	.	.	.	.	4
4.00-4.49	2	.	.	.	2
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	373	945	910	654	292	69	16	2	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.3 MEAN TP(SEC)= 4.0 NO. OF CASES= 3061.

STATION H02 43.18N 82.32W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	433	405	222	151	29	4	.	.	.	.	1244
0.50-0.99	.	701	329	115	102	14	.	.	.	.	1261
1.00-1.49	.	.	372	71	13	12	1	1	.	.	470
1.50-1.99	.	.	3	204	4	9	2	.	.	.	222
2.00-2.49	.	.	.	14	23	.	4	.	.	.	41
2.50-2.99	14	.	.	.	.	.	14
3.00-3.49	1	.	.	.	.	.	1
3.50-3.99	2	.	.	.	.	2
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	433	1106	926	555	186	41	7	1	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.8 MEAN TP(SEC)= 3.7 NO. OF CASES= 3056.

STATION H02 43.18N 82.32W AZIMUTH(DEGREES) = 112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	463	377	197	126	22	7	.	.	.	.	1192
0.50-0.99	.	746	350	97	71	17	3	.	.	.	1284
1.00-1.49	.	.	353	42	13	10	3	.	.	.	421
1.50-1.99	.	.	6	168	1	2	2	.	.	.	179
2.00-2.49	.	.	.	17	13	.	.	.	.	.	30
2.50-2.99	9	.	.	.	.	.	9
3.00-3.49	3	3	.	.	.	.	6
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	463	1123	906	450	132	39	8	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.4 MEAN TP(SEC)= 3.6 NO. OF CASES= 2930.

STATION H02 43.18N 82.32W AZIMUTH(DEGREES) = 135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	725	495	256	171	42	10	.	.	.	.	1699
0.50-0.99	.	1373	578	66	82	12	1	.	.	.	2112
1.00-1.49	.	.	398	4	16	10	1	.	.	.	429
1.50-1.99	.	.	11	120	2	3	.	.	.	.	136
2.00-2.49	.	.	.	21	2	1	.	.	.	.	24
2.50-2.99	3	.	.	.	.	.	3
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	725	1868	1243	382	147	36	2	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.8 MEAN TP(SEC)= 3.4 NO. OF CASES= 4126.

STATION H02 43.18N 82.32W AZIMUTH(DEGREES) = 157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	792	716	256	155	49	11	1	.	.	.	1980
0.50-0.99	.	1497	662	72	44	16	2	.	.	.	2293
1.00-1.49	.	.	541	74	7	4	.	.	.	.	627
1.50-1.99	.	.	3	170	2	2	2	.	.	.	177
2.00-2.49	.	.	.	13	16	.	.	.	.	.	29
2.50-2.99	7	.	.	.	.	.	7
3.00-3.49	2	.	.	.	.	.	2
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	792	2213	1462	484	125	33	6	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.2 MEAN TP(SEC)= 3.4 NO. OF CASES= 4791.

STATION H02 43.18N 82.32W AZIMUTH(DEGREES) = 180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49		1381	343	248	84	14	3				3448
0.50-0.99	1375	2334	1495	118	68	17	10	1	.	.	4043
1.00-1.49	.	.	1768	395	4	3	1	.	.	.	2171
1.50-1.99	.	.	4	889	.	.	1	.	.	.	894
2.00-2.49	.	.	.	81	131	.	.	.	.	.	212
2.50-2.99	.	.	.	.	67	.	.	.	.	.	67
3.00-3.49	.	.	.	.	11	3	.	.	.	.	14
3.50-3.99	.	.	.	.	.	5	.	.	.	.	5
4.00-4.49	.	.	.	.	.	1	.	.	.	.	1
4.50-4.99	.	.	.	.	.	.	.	.	.	.	0
5.00-5.49	.	.	.	.	.	.	.	.	.	.	0
5.50-5.99	.	.	.	.	.	.	.	.	.	.	0
6.00-6.49	.	.	.	.	.	.	.	.	.	.	0
6.50-6.99	.	.	.	.	.	.	.	.	.	.	0
7.00+	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1375	3715	3610	1731	365	43	15	1	0	0	
MEAN HS(M) = 0.8	LARGEST HS(M)= 4.2		MEAN TP(SEC)= 3.7		NO. OF CASES= 10161.						

STATION H02 43.18N 82.32W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1093	1270	290	263	111	14	.	.	.	.	3041
0.50-0.99	.	2761	1972	95	89	24	12	.	.	.	4953
1.00-1.49	.	.	1890	273	3	7	.	.	.	.	2180
1.50-1.99	.	.	33	943	4	.	1	.	.	.	981
2.00-2.49	.	.	.	98	116	.	.	.	.	.	214
2.50-2.99	.	.	.	2	64	.	.	.	.	.	66
3.00-3.49	10	5	.	.	.	.	15
3.50-3.99	2	6	.	.	.	.	8
4.00-4.49	0
4.50-4.99	1	.	.	.	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1093	4031	4185	1674	399	57	20	0	0	0	
MEAN HS(M) = 0.8	LARGEST HS(M) = 4.5		MEAN TP(SEC) = 3.7		NO. OF CASES = 10726.						

STATION H02 43.18N 82.32W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	818	726	296	272	140	28	2				2282
0.50-0.99		1802	1215	133	109	58	18	1			3436
1.00-1.49			967	1	2	16	4				990
1.50-1.99			21	411			1				433
2.00-2.49				78		14	1				93
2.50-2.99						35					35
3.00-3.49						8					8
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	818	2628	2499	895	308	102	26	1	0	0	
MEAN HS(M) = 0.7	LARGEST HS(M) = 3.4		MEAN TP(SEC) = 3.7		NO. OF CASES = 6814.						

STATION H02 43.18N 82.32W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	649	649	219	213	106	22	2				1860
0.50-0.99		1764	640	146	159	88	32	5			2834
1.00-1.49			665	5	33	28	19	1			751
1.50-1.99			85	214		2	2				304
2.00-2.49				55	9						64
2.50-2.99					9						9
3.00-3.49					8						8
3.50-3.99					1						1
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	649	2413	1609	633	326	140	55	6	0	0	
MEAN HS (M) = 0.7	LARGEST HS (M) = 3.5		MEAN TP (SEC) = 3.7		NO. OF CASES = 5464.						

STATION H02 43.18N 82.32W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	623	585	228	195	127	31	4				1793
0.50-0.99		1935	629	279	273	187	57	5			3365
1.00-1.49			791	33	80	81	52	3	1		1041
1.50-1.99			176	145	9	35	23	2	3		393
2.00-2.49				78	1	3	9	2			93
2.50-2.99				2	13		4				19
3.00-3.49					3		1				4
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	623	2520	1824	732	506	337	150	12	4	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.0 MEAN TP(SEC)= 4.0 NO. OF CASES= 6285.

STATION H02 43.18N 82.32W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	557	559	182	158	90	16	3				1565
0.50-0.99		1781	733	268	251	149	55	3			3240
1.00-1.49			843	154	151	127	63	4	2		1344
1.50-1.99			201	225	47	60	65	7			605
2.00-2.49				88	10	18	37	9			162
2.50-2.99				7	12	3	13	5	1		41
3.00-3.49					5		3	4	3		15
3.50-3.99								2			2
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	557	2340	1959	900	566	373	239	34	6	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 3.8 MEAN TP(SEC)= 4.1 NO. OF CASES= 6538.

STATION H02 43.18N 82.32W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	358	403	205	168	88	17	2				1222
0.50-0.99		1348	873	239	235	100	19	1			2815
1.00-1.49			888	372	208	177	52	3	1		1701
1.50-1.99			176	614	162	120	73	7	2		1154
2.00-2.49				221	125	84	88	6			504
2.50-2.99				14	80	26	71	10			201
3.00-3.49					28	7	29	7	3		74
3.50-3.99					6	1	18	17	2	1	45
4.00-4.49						2	2	3	2		6
4.50-4.99						2		1	1		3
5.00-5.49						1				2	3
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	358	1751	2143	1628	913	516	356	55	11	5	

MEAN HS(M) = 1.1 LARGEST HS(M)= 5.9 MEAN TP(SEC)= 4.6 NO. OF CASES= 7255.

STATION H02 43.18N 82.32W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

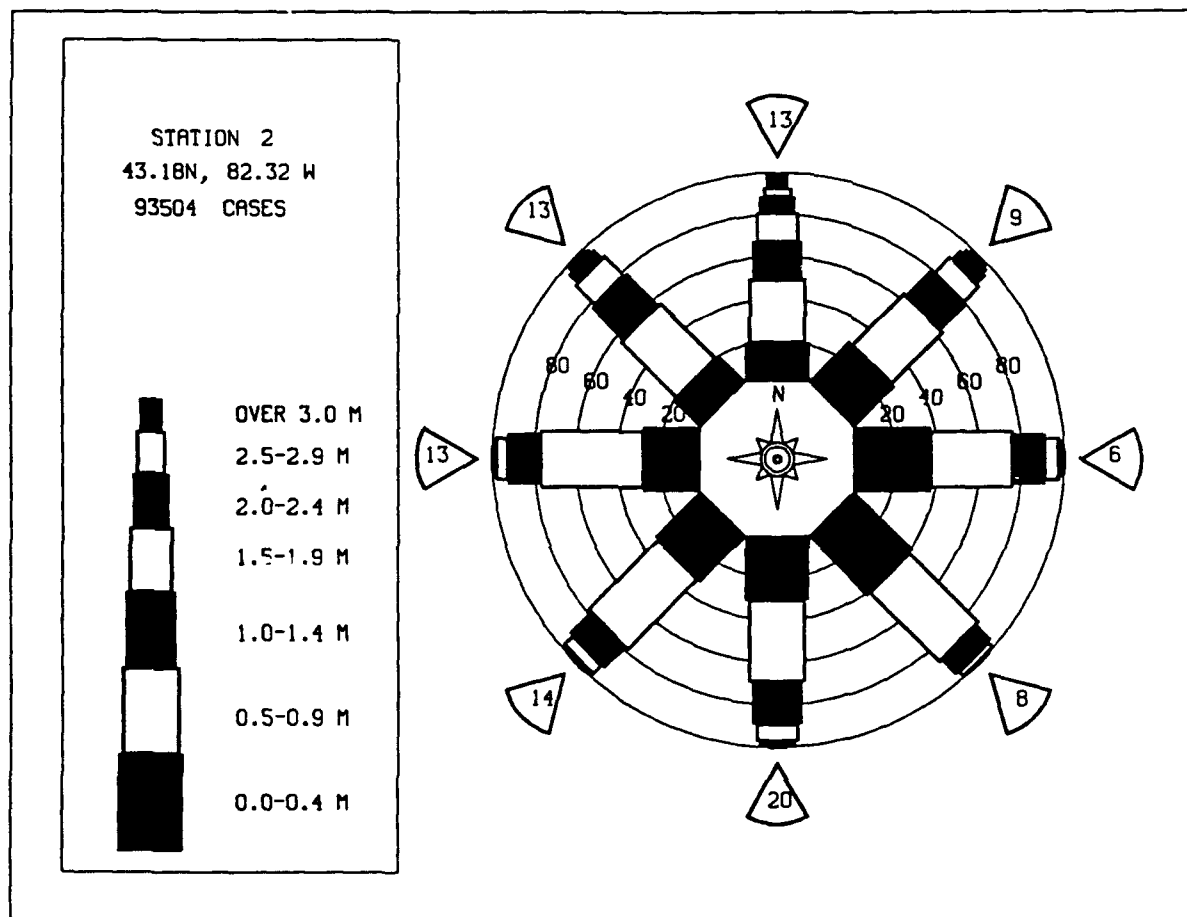
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	352	337	149	116	49	7	4				1014
0.50-0.99		619	619	214	196	44	8				1700
1.00-1.49			374	346	155	109	27				1011
1.50-1.99			37	368	133	77	42	3			660
2.00-2.49				48	195	45	55	1			344
2.50-2.99				6	63	71	41	7	1		189
3.00-3.49					12	54	27	5	3		101
3.50-3.99					1	8	31	5	1		46
4.00-4.49						4	23	4	1		32
4.50-4.99							13	3	2		18
5.00-5.49							6	5		1	12
5.50-5.99							1	3	2		6
6.00-6.49								3	4		7
6.50-6.99									1	2	3
7.00+									1		1
TOTAL	352	956	1179	1098	804	419	278	39	16	3	

MEAN HS(M) = 1.2 LARGEST HS(M)= 7.3 MEAN TP(SEC)= 4.7 NO. OF CASES= 4834.

STATION H02 43.18N 82.32W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	996	978	367	279	106	21	2	.	.	.	2749
0.50-0.99	.	2107	1357	268	221	81	23	1	.	.	4058
1.00-1.49	.	.	1139	334	111	78	24	1	.	.	1687
1.50-1.99	.	.	77	632	97	46	27	2	.	.	881
2.00-2.49	.	.	.	88	181	23	26	2	.	.	320
2.50-2.99	.	.	.	3	77	36	20	2	.	.	138
3.00-3.49	11	39	12	.	.	.	64
3.50-3.99	1	15	16	4	.	.	36
4.00-4.49	1	13	1	.	.	15
4.50-4.99	7	2	.	.	9
5.00-5.49	2	.	.	.	2
5.50-5.99	1	.	.	1
6.00-6.49	1	1	.	2
6.50-6.99	2
7.00+	0
TOTAL	996	3085	2940	1604	805	340	172	23	2	0	93504

MEAN HS(M)= 0.9 LARGEST HS(M)= 9.1 MEAN TP(SEC)= 4.0 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H02 (43.18N 82.32W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	0.9	0.6	0.8	0.8	0.7	0.5	0.4	0.4	0.6	0.8	0.8	0.7	0.7
1957	0.8	0.7	0.7	0.7	0.8	0.5	0.5	0.5	0.6	0.8	0.9	1.0	0.7
1958	1.0	1.3	0.7	0.8	0.8	0.8	0.8	0.7	0.9	1.1	1.1	0.9	0.9
1959	1.1	1.1	1.0	1.1	1.0	0.8	0.7	0.7	0.9	1.0	1.1	1.1	1.0
1960	1.0	1.3	1.0	0.8	0.8	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.8
1961	1.0	0.8	1.1	0.8	0.8	0.8	0.5	0.5	0.6	0.8	0.8	0.8	0.8
1962	0.9	0.9	0.6	0.9	0.6	0.6	0.6	0.5	0.8	0.8	0.8	1.0	0.7
1963	0.8	0.8	0.8	0.9	0.6	0.4	0.6	0.6	0.6	0.6	0.9	0.7	0.7
1964	0.9	0.9	1.1	0.9	1.2	1.0	0.9	0.7	0.7	0.8	0.8	0.9	0.9
1965	1.0	0.9	0.9	0.9	0.6	0.6	0.6	0.6	0.7	0.8	0.9	0.9	0.8
1966	1.0	0.8	0.9	0.9	0.7	0.5	0.5	0.6	0.7	0.8	0.8	0.8	0.7
1967	1.0	1.2	1.0	0.9	0.7	0.4	0.5	0.5	0.7	0.9	0.8	1.1	0.8
1968	1.1	1.3	1.1	1.4	1.1	1.1	0.9	0.8	0.9	1.1	1.1	1.1	1.1
1969	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1970	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1971	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1972	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1973	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1974	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1975	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1976	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1977	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1978	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1979	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1980	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1981	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1982	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1983	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1984	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1985	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1986	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1987	0.7	0.6	0.7	0.8	0.6	0.4	0.4	0.5	0.4	0.6	0.8	0.8	0.6
MEAN	1.0	1.0	1.1	1.1	0.9	0.7	0.6	0.6	0.7	0.8	1.0	1.0	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H02 (43.18N 82.32W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1957	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1958	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1959	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1960	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1961	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1962	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1963	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1964	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1965	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1966	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1967	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1968	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1969	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1970	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1971	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1972	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1973	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1974	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1975	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1976	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1977	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1978	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1979	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1980	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1981	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1982	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1983	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1984	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1985	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1986	3.6	2.7	3.3	3.4	2.2	1.9	1.5	1.2	1.8	2.5	2.9	1.9	
1987	1.8	4.0	3.3	3.6	1.7	1.2	1.3	1.3	1.4	1.8	2.2	2.5	

32 YR. STATISTICS FOR WIS STATION H02

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	0.9
MEAN PEAK WAVE PERIOD (SECONDS)	4.0
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	202.5
STANDARD DEVIATION OF WAVE HS (METERS)	0.7
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.4
LARGEST WAVE HS (METERS)	9.1
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	6.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	68011518

STATION H03 43.33N 82.32W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	500	598	280	238	40	5	1	.	.	.	1662
0.50-0.99	.	699	1040	349	174	28	7	.	.	.	2297
1.00-1.49	.	.	459	544	210	81	5	.	.	.	1299
1.50-1.99	.	.	3	597	272	86	16	.	.	.	974
2.00-2.49	.	.	.	10	375	62	33	.	.	.	480
2.50-2.99	101	167	42	2	.	.	312
3.00-3.49	3	126	44	5	.	.	178
3.50-3.99	18	87	7	1	.	113
4.00-4.49	1	62	6	2	.	71
4.50-4.99	23	17	.	.	40
5.00-5.49	12	16	4	.	32
5.50-5.99	9	7	1	16
6.00-6.49	1	5	.	4
6.50-6.99	2	.	2
7.00+
TOTAL	500	1297	1782	1738	1175	574	332	63	21	3	7020

MEAN HS(M) = 1.2 LARGEST HS(M)= 8.3 MEAN TP(SEC)= 4.7 NO. OF CASES= 7020.

STATION H03 43.33N 82.32W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	451	565	285	170	29	6	.	.	.	.	1506
0.50-0.99	.	648	1001	274	150	25	.	.	.	.	2098
1.00-1.49	.	.	358	472	149	57	7	.	.	.	1043
1.50-1.99	.	.	1	435	176	59	8	.	.	.	679
2.00-2.49	.	.	.	7	228	34	17	.	.	.	286
2.50-2.99	58	44	14	.	.	.	116
3.00-3.49	5	48	14	2	.	.	69
3.50-3.99	10	13	4	.	.	27
4.00-4.49	2	8	5	.	.	15
4.50-4.99	6	5	.	.	11
5.00-5.49	2	2	1	.	5
5.50-5.99	2	.	.	2
6.00-6.49	1	.	1
6.50-6.99	1	.	1
7.00+	0
TOTAL	451	1213	1645	1358	795	285	89	20	3	0	5498

MEAN HS(M) = 1.6 LARGEST HS(M)= 6.9 MEAN TP(SEC)= 4.4 NO. OF CASES= 5498.

STATION H03 43.33N 82.32W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	504	591	269	148	33	5	.	.	.	.	1550
0.50-0.99	.	422	760	242	148	20	1	.	.	.	1593
1.00-1.49	.	.	229	296	78	41	1	.	.	.	645
1.50-1.99	.	.	1	332	83	29	8	.	.	.	453
2.00-2.49	.	.	.	7	244	13	9	.	.	.	273
2.50-2.99	86	21	16	.	.	.	123
3.00-3.49	5	57	6	3	.	.	71
3.50-3.99	31	5	3	.	.	39
4.00-4.49	4	10	1	.	.	15
4.50-4.99	7	2	.	.	9
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	504	1013	1259	1025	677	221	63	9	0	0	4478

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.8 MEAN TP(SEC)= 4.3 NO. OF CASES= 4478.

STATION H03 43.33N 82.32W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	360	417	195	127	24	3	.	.	.	.	1126
0.50-0.99	.	387	585	156	104	13	3	.	.	.	1248
1.00-1.49	.	.	202	210	34	23	2	.	.	.	471
1.50-1.99	.	.	.	209	25	5	2	.	.	.	241
2.00-2.49	.	.	.	6	90	1	1	1	.	.	100
2.50-2.99	49	5	1	.	.	.	55
3.00-3.49	11	.	.	.	.	11
3.50-3.99	5	.	.	.	.	5
4.00-4.49	1	1	.	.	.	2
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	360	804	982	708	326	67	11	1	0	0	3058

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.3 MEAN TP(SEC)= 4.0 NO. OF CASES= 3058.

STATION H03 43.33N 82.32W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	408	488	265	152	29	3	.	.	.	.	1345
0.50-0.99	.	389	609	136	85	5	.	.	.	.	1224
1.00-1.49	.	.	245	185	14	12	.	.	.	.	456
1.50-1.99	.	.	.	248	14	5	1	.	.	.	268
2.00-2.49	.	.	.	8	89	1	2	.	.	.	100
2.50-2.99	26	.	.	.	.	.	26
3.00-3.49	1	9	.	.	.	.	10
3.50-3.99	1	.	.	.	.	1
4.00-4.49	1	.	.	.	.	1
4.50-4.99	1	.	.	.	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	408	877	1119	729	258	37	4	0	0	0	
MEAN HS (M) = 0.7	LARGEST HS (M) = 4.5		MEAN TP (SEC) = 3.9		NO. OF CASES = 3222.						

MEAN HS(M) = 0.7 LARGEST HS(M)= 4.5 MEAN TP(SEC)= 3.9 NO. OF CASES= 3222.

STATION H03 43.33N 82.32W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	411	459	192	112	19	3					1196
0.50-0.99	.	414	617	93	45	13	1	.	.	.	1183
1.00-1.49	.	.	274	176	6	9	2	.	.	.	467
1.50-1.99	.	.	1	245	9	1		.	.	.	256
2.00-2.49	.	.	.	3	73			.	.	.	76
2.50-2.99	.	.	.		18	1		.	.	.	19
3.00-3.49	1	3		.	.	.	4
3.50-3.99	1		.	.	.	5
4.00-4.49	5		.	.	.	1
4.50-4.99	1		.	.	.	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	411	873	1084	629	171	36	3	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 4.1 MEAN TP(SEC)= 3.8 NO. OF CASES= 3010.

STATION H03 43.33N 82.32W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	630	610	241	162	36	7	.	.	.	.	1666
0.50-0.99	.	561	792	78	67	13	2	.	.	.	1513
1.00-1.49	.	.	.	221	7	7	1	.	.	.	570
1.50-1.99	.	.	334	206	7	4	.	.	.	.	217
2.00-2.49	.	.	.	2	60	1	.	.	.	.	63
2.50-2.99	16	.	.	.	.	.	16
3.00-3.49	3	.	.	.	.	3
3.50-3.99	1	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	630	1171	1367	669	193	36	3	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.9 MEAN TP(SEC)= 3.7 NO. OF CASES= 3815.

STATION H03 43.33N 82.32W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	713	879	254	166	42	10	.	.	.	.	2064
0.50-0.99	.	778	1178	100	52	.	2	.	.	.	2119
1.00-1.49	.	.	435	359	4	5	2	.	.	.	807
1.50-1.99	.	.	.	252	4	.	2	.	.	.	256
2.00-2.49	.	.	.	2	95	.	.	.	.	.	97
2.50-2.99	20	.	.	.	.	.	20
3.00-3.49	4	.	.	.	.	4
3.50-3.99	3	.	.	.	.	3
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	713	1657	1867	879	217	31	6	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.7 MEAN TP(SEC)= 3.7 NO. OF CASES= 5030.

STATION H03 43.33N 82.32W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	1211	1919	376	228	72	9	1	.	.	.	3816
0.50-0.99	.	1421	3301	155	62	21	8	.	.	.	4968
1.00-1.49	.	.	1162	1210	7	2	4	.	.	.	2385
1.50-1.99	.	.	5	1184	84	.	1	.	.	.	1274
2.00-2.49	.	.	.	8	484	.	.	.	.	.	492
2.50-2.99	142	11	.	.	.	.	153
3.00-3.49	4	44	.	.	.	.	48
3.50-3.99	16	.	.	.	.	16
4.00-4.49	1	.	.	.	.	2
4.50-4.99	2	.	.	.	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1211	3340	4844	2785	855	104	16	0	0	0	
MEAN HS(M) = 0.8	LARGEST HS(M)= 4.5		MEAN TP(SEC)= 3.9		NO. OF CASES= 12313.						

STATION H03 43.33N 82.32W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	898	1355	294	243	87	12	1	.	.	.	2890
0.50-0.99	.	2413	2044	148	75	21	9	.	.	.	4710
1.00-1.49	.	.	1292	564	5	4	4	.	.	.	1869
1.50-1.99	.	.	55	786	74	.	.	.	.	.	915
2.00-2.49	.	.	.	47	234	1	.	.	.	.	282
2.50-2.99	69	7	.	.	.	.	76
3.00-3.49	4	27	.	.	.	.	31
3.50-3.99	4	.	.	.	.	4
4.00-4.49	1	1	1	.	.	.	3
4.50-4.99	0
5.00-5.49	1	.	.	.	1
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	898	3768	3685	1788	549	77	16	0	0	0	
MEAN HS(M) = 0.8	LARGEST HS(M)=		5.4	MEAN TP(SEC)=		3.8	NO. OF CASES=		10094.		

STATION H03 43.33N 82.32W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	712	764	304	322	127	20	1	.	.	.	2250
0.50-0.99	.	1797	1071	146	103	51	19	.	.	.	3187
1.00-1.49	.	.	788	3	5	10	4	2	.	.	812
1.50-1.99	.	.	24	298	1	1	1	.	.	.	325
2.00-2.49	.	.	.	69	9	.	.	.	.	.	78
2.50-2.99	.	.	.	2	22	.	.	.	.	.	24
3.00-3.49	9	.	.	.	.	.	9
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	712	2561	2187	840	276	82	25	2	0	0	
MEAN HS (M) = 0.7 LARGEST HS (M) = 3.4 MEAN TP (SEC) = 3.7 NO. OF CASES = 6262.											

STATION H03 43.33N 82.32W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	561	673	253	232	126	13	2				1860
0.50-0.99		1437	481	150	182	104	22	4			2370
1.00-1.49			493	4	23	24	16	1			561
1.50-1.99			62	151		2	1	1			217
2.00-2.49				27	2	1					30
2.50-2.99					4						4
3.00-3.49					2						2
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	561	2110	1299	564	319	144	41	6	0	0	
MEAN HS(M) = 0.6	LARGEST HS(M) =		3.1	MEAN TP(SEC) =		3.7	NO. OF CASES =		4727.		

STATION H03 43.33N 82.32W AZIMUTH(DEGREES) = 270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	531	676	237	256	139	25	1	.	.	1865	
0.50-0.99	.	1632	547	282	312	187	49	3	.	3012	
1.00-1.49	.	.	548	17	65	106	56	4	1	797	
1.50-1.99	.	.	116	101	.	24	28	3	1	273	
2.00-2.49	.	.	.	34	1	1	8	1	1	46	
2.50-2.99	.	.	.	1	7	.	3	.	.	11	
3.00-3.49	0	
3.50-3.99	0	
4.00-4.49	0	
4.50-4.99	0	
5.00-5.49	0	
5.50-5.99	0	
6.00-6.49	0	
6.50-6.99	0	
7.00+	0	
TOTAL	531	2308	1448	691	524	343	145	11	3	0	
MEAN HS(M) = 0.7	LARGEST HS(M)= 2.9		MEAN TP(SEC)= 4.0		NO. OF CASES= 5626.						

STATION H03 43.33N 82.32W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-11.9	
0.00-0.49	473	636	187	194	77	11	2	.	.	.	1580
0.50-0.99	.	1596	765	262	281	148	49	.	.	.	3101
1.00-1.49	.	2	791	74	102	104	45	1	1	.	1120
1.50-1.99	.	.	125	205	8	48	47	5	2	.	440
2.00-2.49	.	.	.	44	26	19	24	1	.	.	114
2.50-2.99	19	.	7	3	2	.	31
3.00-3.49	2	1	4	3	1	.	11
3.50-3.99	1	2	.	3	.	.	6
4.00-4.49	1	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	473	2234	1868	779	516	333	178	16	7	0	
MEAN HS(M) = 0.8	LARGEST HS(M) = 4.0		MEAN TP(SEC) = 4.1		NO. OF CASES = 6003.						

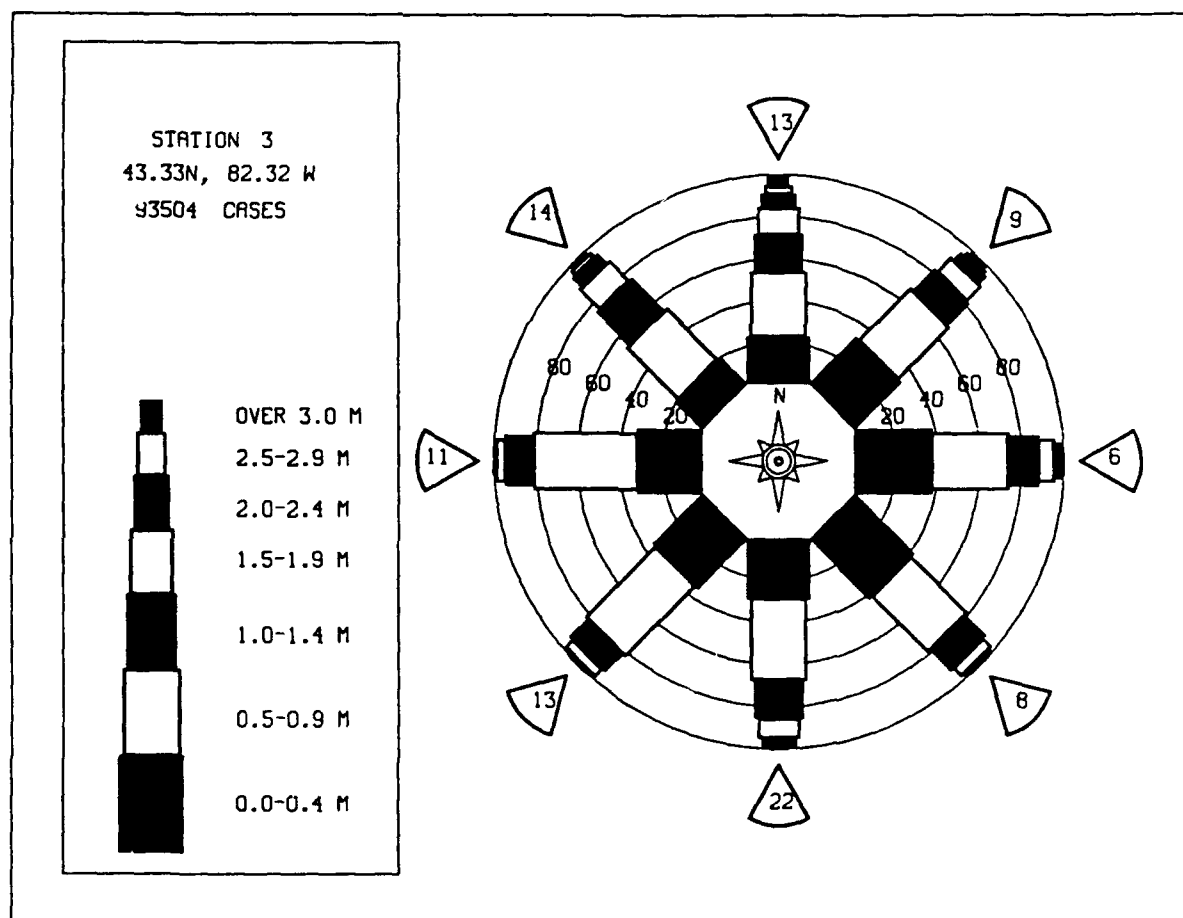
STATION H03 43.33N 82.32W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	345	488	235	191	69	6					1337
0.50-0.99		1057	1095	249	245	80	14	1	.	.	2741
1.00-1.49			1127	464	171	118	43	1	1	.	1925
1.50-1.99			59	956	49	101	64	4	1	.	1234
2.00-2.49				128	377	48	57	4	.	.	614
2.50-2.99					179	8	63	11	.	.	261
3.00-3.49					29	33	26	6	2	.	96
3.50-3.99						16	2	6	3	.	27
4.00-4.49						5	1	4	1	1	14
4.50-4.99						2		.	2	1	6
5.00-5.49							3	.	.	.	3
5.50-5.99								.	.	.	0
6.00-6.49								.	.	.	0
6.50-6.99								.	.	.	0
7.00+								.	.	.	0
TOTAL	345	1545	2516	1988	1119	420	276	37	10	2	
MEAN HS(M) = 1.1	LARGEST HS(M)= 5.2		MEAN TP(SEC)= 4.6		NO. OF CASES= 7740.						

STATION H03 43.33N 82.32W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	341	392	193	134	52	5					1117
0.50-0.99		438	739	247	195	59	6				1684
1.00-1.49			556	390	188	106	18				1258
1.50-1.99			9	568	156	84	32	1			850
2.00-2.49				45	306	73	54	2			480
2.50-2.99					91	100	55	4	1		251
3.00-3.49					12	75	42	8	2		139
3.50-3.99						16	53	8	1		78
4.00-4.49						2	52	8	1		63
4.50-4.99							14	10	1		25
5.00-5.49							1	8		1	10
5.50-5.99								5			5
6.00-6.49									3		3
6.50-6.99									1	2	3
7.00+										3	3
TOTAL	341	830	1497	1384	1000	520	327	54	14	6	5608
MEAN HS (M) = 1.2	LARGEST HS (M) = 7.6		MEAN TP (SEC) = 4.9		NO. OF CASES = 5608.						

STATION H03 43.33N 82.32W FOR ALL DIRECTIONS										
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER
0.00-0.49	905	1151	406	308	100	15				2885
0.50-0.99		1609	1664	307	226	80	19			3905
1.00-1.49			930	519	107	71	21			1648
1.50-1.99			46	678	96	45	21	1		887
2.00-2.49				45	270	25	20			360
2.50-2.99					91	36	20	2		149
3.00-3.49					8	44	14	2		68
3.50-3.99						13	16	3		32
4.00-4.49						2	13	2		17
4.50-4.99							5	3		8
5.00-5.49							2	2		4
5.50-5.99								1	1	2
6.00-6.49										0
6.50-6.99										0
7.00+										0
TOTAL	905	2760	3046	1857	898	331	151	16	1	0
MEAN HS(M)=	0.9	LARGEST HS(M)=	8.3	MEAN TP(SEC)=	4.1	TOTAL CASES=	93504.			



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H03 (43.33N 82.32W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.0	0.7	0.9	0.8	0.8	0.6	0.5	0.4	0.6	0.8	0.9	0.8	0.7
1957	0.9	0.8	0.7	0.8	0.8	0.6	0.5	0.5	0.6	0.8	1.0	1.0	0.7
1958	1.0	1.4	0.7	0.9	0.8	0.9	0.6	0.8	1.0	1.0	1.2	0.9	0.9
1959	1.2	1.2	1.1	1.1	1.1	0.8	0.8	0.8	1.0	1.1	1.1	1.1	1.0
1960	1.1	1.4	1.1	1.1	0.9	0.6	0.6	0.5	0.6	0.7	1.2	1.1	0.9
1961	1.1	1.0	1.2	0.9	0.8	0.7	0.6	0.6	0.6	0.9	0.9	0.8	0.8
1962	1.0	0.9	0.9	0.9	0.7	0.6	0.6	0.5	0.8	0.7	1.0	1.0	0.8
1963	0.9	0.9	0.9	1.0	0.7	0.5	0.6	0.6	0.7	0.6	0.9	0.8	0.7
1964	1.0	0.9	1.1	1.2	0.9	0.7	0.6	0.6	0.7	0.8	1.0	0.9	0.9
1965	1.1	1.1	1.0	0.8	0.8	0.7	0.6	0.6	0.7	1.0	0.9	0.8	0.8
1966	1.0	0.9	0.8	0.8	0.8	0.7	0.6	0.6	0.8	0.9	0.8	1.0	0.8
1967	1.1	1.1	0.8	0.8	0.8	0.7	0.6	0.6	0.9	1.0	0.9	0.8	0.8
1968	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.8	0.8	1.0	1.1	1.1	1.1
1969	1.2	1.1	1.1	1.1	1.1	0.9	0.8	0.8	1.0	1.1	1.1	1.1	1.0
1970	0.9	1.1	1.0	1.1	1.2	0.9	0.8	0.8	1.0	1.1	1.1	1.1	1.1
1971	1.3	1.1	1.1	1.1	1.3	1.1	0.7	0.8	0.6	0.7	1.1	0.9	1.0
1972	1.0	1.0	1.3	0.9	0.8	1.0	0.6	0.6	0.8	0.9	0.8	0.9	0.9
1973	1.2	1.0	1.1	1.1	0.8	0.6	0.5	0.4	0.6	0.7	0.9	0.9	0.8
1974	0.6	0.8	1.2	1.1	0.8	0.7	0.5	0.4	0.7	0.8	0.8	0.8	0.8
1975	0.9	0.8	1.0	1.4	0.6	0.6	0.5	0.5	0.6	0.8	0.9	1.0	0.8
1976	1.1	1.1	1.3	1.1	0.9	0.6	0.7	0.6	0.8	0.8	0.8	1.0	0.9
1977	0.9	1.0	1.1	0.9	0.7	0.7	0.5	0.5	0.8	0.8	0.8	1.0	0.8
1978	1.1	0.7	0.8	1.2	0.9	0.9	0.8	0.6	0.8	1.0	1.0	1.0	0.9
1979	1.1	1.1	0.9	1.0	0.8	0.7	0.4	0.6	0.7	0.8	0.7	1.2	0.8
1980	0.9	0.9	1.3	1.0	0.7	0.8	0.5	0.5	0.7	0.8	1.1	1.1	0.9
1981	0.9	1.2	1.2	1.2	1.0	0.7	0.6	0.5	0.8	0.9	0.9	1.0	0.9
1982	1.3	1.0	0.9	1.3	0.6	0.6	0.5	0.6	0.5	0.6	0.9	1.0	0.8
1983	1.0	0.8	1.1	1.1	1.0	0.5	0.6	0.5	0.6	0.8	1.4	1.0	0.8
1984	0.9	1.1	1.4	1.1	0.9	0.7	0.5	0.5	0.6	0.6	0.9	0.7	0.8
1985	1.1	0.9	1.2	1.0	0.9	0.8	0.8	0.6	0.7	0.8	1.1	1.0	0.9
1986	1.3	0.8	1.1	1.1	0.9	0.8	0.7	0.7	0.6	0.7	0.9	0.8	0.9
1987	0.7	0.6	0.7	0.8	0.6	0.5	0.5	0.5	0.5	0.6	0.9	0.9	0.7
MEAN	1.0	1.0	1.1	1.1	0.8	0.7	0.6	0.6	0.7	0.8	1.0	1.0	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H03 (43.33N 82.32W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.6	2.9	4.0	2.8	2.4	2.3	1.5	1.4	2.0	2.6	3.0	2.0	
1957	2.8	2.7	2.5	2.8	2.4	2.8	2.5	2.2	2.8	4.0	2.9	2.6	
1958	4.9	6.5	2.5	3.7	3.1	3.2	3.3	2.7	2.8	2.9	3.3	3.3	
1959	3.5	3.8	3.3	3.5	3.4	3.3	3.8	2.7	4.1	4.1	4.4	4.2	
1960	4.1	3.9	4.7	3.8	3.2	3.0	3.7	2.6	3.2	3.4	3.0	4.4	
1961	4.9	3.7	6.3	3.1	2.6	2.7	3.6	2.8	3.3	3.3	3.7	2.3	
1962	3.6	3.0	2.6	4.4	2.2	2.1	3.6	2.6	4.1	2.0	3.7	5.8	
1963	3.4	4.1	3.4	3.3	4.3	1.8	2.7	4.5	2.7	1.1	4.6	3.6	
1964	3.0	2.8	4.0	4.5	2.9	2.2	2.4	2.6	2.2	2.3	2.5	3.5	
1965	3.2	2.6	3.1	3.3	2.1	2.8	3.3	2.6	2.0	3.5	3.8	4.5	
1966	3.4	2.9	3.4	3.3	3.0	1.4	2.2	2.6	2.2	2.9	5.2	2.8	
1967	4.5	4.2	3.4	3.3	3.6	1.6	2.2	2.3	2.4	3.7	2.7	3.0	
1968	8.3	4.3	5.8	3.4	4.4	3.5	3.1	2.6	4.3	4.0	5.4	4.7	
1969	3.4	3.4	2.6	4.9	2.7	3.1	2.4	2.3	3.7	3.9	4.6	4.6	
1970	2.3	4.4	4.5	4.3	4.0	3.3	3.3	2.0	2.5	3.1	4.5	5.5	
1971	2.3	6.4	4.6	5.8	4.2	2.8	2.4	2.0	2.5	2.7	5.6	3.9	
1972	3.0	3.5	4.4	2.5	2.7	3.7	1.9	1.7	3.0	3.2	3.9	4.2	
1973	5.6	3.5	4.4	2.8	2.7	2.1	2.1	2.4	2.6	2.4	2.6	2.7	
1974	2.8	3.3	3.6	3.0	2.4	2.3	1.7	1.5	2.4	3.1	4.4	3.5	
1975	3.3	2.5	3.4	7.6	1.7	2.3	1.6	1.8	2.6	3.2	3.8	4.4	
1976	3.0	3.3	3.6	4.7	2.8	3.2	2.9	2.3	2.2	2.6	2.6	3.4	
1977	2.4	2.3	3.5	3.5	5.3	2.9	2.1	1.8	1.8	2.4	4.3	3.0	
1978	4.0	3.5	3.5	3.8	3.8	4.2	2.2	2.4	2.5	2.9	5.4	2.7	
1979	3.3	3.4	3.6	4.0	4.0	2.8	1.7	3.0	2.8	2.1	2.7	5.9	
1980	3.0	3.1	5.5	4.3	2.8	4.0	2.0	1.7	2.7	2.2	3.1	5.1	
1981	3.6	4.4	6.8	4.2	5.0	1.9	2.7	2.3	2.4	3.8	4.7	4.6	
1982	3.6	2.7	2.8	4.7	2.2	2.9	2.0	2.7	2.1	2.9	3.6	3.2	
1983	3.4	2.3	3.8	3.8	4.5	2.1	2.5	3.0	2.1	2.5	6.9	5.1	
1984	3.3	6.6	6.6	4.5	3.5	1.9	1.9	2.0	2.8	2.1	5.3	2.3	
1985	3.8	2.5	3.3	3.3	3.3	2.3	2.4	2.1	2.1	3.5	3.1	3.8	
1986	4.7	4.0	3.5	3.7	2.9	1.9	1.9	2.4	2.1	2.3	2.8	2.4	
1987	2.2	4.2	3.2	3.6	1.8	1.4	1.4	1.6	1.7	2.1	2.5	3.0	

32 YR. STATISTICS FOR WIS STATION H03

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	0.9
MEAN PEAK WAVE PERIOD (SECONDS)	4.1
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	180.0
STANDARD DEVIATION OF WAVE HS (METERS)	0.7
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.3
LARGEST WAVE HS (METERS)	8.3
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	5.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	68011518

STATION H04 43.47N 82.52W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	603	761	352	251	44	7	1	.	.	.	2019
0.50-0.99	.	711	1128	429	188	35	2	.	.	.	2493
1.00-1.49	.	.	367	485	299	78	6	.	.	.	1255
1.50-1.99	.	.	5	483	275	128	24	.	.	.	915
2.00-2.49	.	.	.	11	310	81	47	.	.	.	448
2.50-2.99	68	177	57	.	1	.	319
3.00-3.49	2	94	56	8	.	.	160
3.50-3.99	13	87	9	.	.	109
4.00-4.49	59	14	5	.	78
4.50-4.99	16	28	32	1	47
5.00-5.49	18	55	.	23
5.50-5.99	7	66	1	14
6.00-6.49	66	.	6
6.50-6.99	33	1	4
7.00+	2	.	2
TOTAL	603	1472	1872	1659	1186	613	355	91	30	3	
MEAN HS(M) = 1.1	LARGEST HS(M)= 7.5		MEAN TP(SEC)= 4.7		NO. OF CASES= 7393.						

STATION H04 43.47N 82.52W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	485	623	297	177	34	1					1617
0.50-0.99	.	505	881	376	143	22	3	.	.	.	1930
1.00-1.49	.	.	211	388	201	58		.	.	.	858
1.50-1.99	.	.	.	295	173	82	12	.	.	.	562
2.00-2.49	.	.	.	3	195	54	28	.	.	.	280
2.50-2.99	.	.	.	1	47	74	26	2	.	.	150
3.00-3.49	32	12	2	.	.	46
3.50-3.99	10	23	4	.	.	37
4.00-4.49	23	5	1	.	29
4.50-4.99	6	8	1	.	17
5.00-5.49	2	4	1	.	7
5.50-5.99	1			.	3
6.00-6.49		2	1	.	1
6.50-6.99	0
7.00+		1	1
TOTAL	485	1128	1389	1240	793	333	138	27	4	1	
MEAN HS (M) = 1.0	LARGEST HS (M) = 7.2		MEAN TP (SEC) = 4.4		NO. OF CASES = 5195.						

STATION H04 43.47N 82.52W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL	
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER		
0.00-0.49	486	617	340	155	34	4	1	.	.	.	1637	
0.50-0.99	.	348	740	300	132	19	.	.	.	.	1539
1.00-1.49	.	.	152	266	151	51	4	.	.	.	624	
1.50-1.99	.	.	1	263	136	34	5	.	.	.	439	
2.00-2.49	.	.	.	2	232	26	9	.	.	.	269	
2.50-2.99	59	83	12	.	.	.	154	
3.00-3.49	3	71	19	3	.	.	96	
3.50-3.99	31	31	2	.	.	64	
4.00-4.49	1	22	5	.	.	28	
4.50-4.99	20	.	1	.	23	
5.00-5.49	7	2	.	.	3	
5.50-5.99	2	1	.	.	0	
6.00-6.49	0	
6.50-6.99	0	
7.00+	0	
TOTAL	486	965	1233	986	747	320	132	17	1	0		
MEAN HS(M) = 1.0	LARGEST HS(M)= 5.7										MEAN TP(SEC)= 4.4	NO. OF CASES= 4584.

STATION H04 43.47N 82.52W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	342	476	236	113	23	2	1	.	.	.	1193
0.50-0.99	.	368	639	263	116	3	1	.	.	.	1390
1.00-1.49	.	.	88	244	77	34	1	.	.	.	444
1.50-1.99	.	.	.	171	73	20	5	.	.	.	269
2.00-2.49	110	4	6	.	.	.	120
2.50-2.99	39	32	1	.	.	.	72
3.00-3.49	34	1	.	.	.	36
3.50-3.99	6	1	.	.	.	11
4.00-4.49	1	.	.	.	3
4.50-4.99	1	.	.	.	2
5.00-5.49	1	.	.	.	0
5.50-5.99	1	.	.	.	0
6.00-6.49	1	.	.	.	0
6.50-6.99	1	.	.	.	0
7.00+	1	.	.	.	0
TOTAL	342	844	963	791	438	135	27	0	0	0	
MEAN HS (M) = 0.8	LARGEST HS (M) = 4.7		MEAN TP (SEC) = 4.2		NO. OF CASES = 3321.						

STATION H04 43.47N 82.52W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	410	571	317	136	26	3	.	.	.	.	1463
0.50-0.99	.	297	684	223	71	3	.	.	.	.	1278
1.00-1.49	.	.	101	247	31	9	2	.	.	.	390
1.50-1.99	.	.	1	228	77	5	2	.	.	.	313
2.00-2.49	.	.	.	3	128	1	3	.	.	.	133
2.50-2.99	36	5	1	1	.	.	43
3.00-3.49	18	.	.	.	.	18
3.50-3.99	8	1	.	.	.	9
4.00-4.49	3	.	.	.	3
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	410	868	1103	837	369	52	13	1	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.8 MEAN TP(SEC)= 4.0 NO. OF CASES= 3426.

STATION H04 43.47N 82.52W AZIMUTH(DEGREES) = 112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	430	565	244	101	22	2	.	.	.	.	1364
0.50-0.99	.	367	736	178	53	13	2	.	.	.	1349
1.00-1.49	.	.	108	259	10	5	1	.	.	.	383
1.50-1.99	.	.	.	221	94	3	3	.	.	.	318
2.00-2.49	.	.	.	1	147	2	1	.	.	.	151
2.50-2.99	27	18	.	1	.	.	46
3.00-3.49	16	.	.	.	.	16
3.50-3.99	4	1	.	.	.	5
4.00-4.49	0
4.50-4.99	1	.	.	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	430	932	1088	760	353	60	9	1	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.9 MEAN TP(SEC)= 4.0 NO. OF CASES= 3409.

STATION H04 43.47N 82.52W AZIMUTH(DEGREES) = 135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	712	940	439	165	28	9	.	.	.	.	2293
0.50-0.99	.	642	1090	236	50	9	1	.	.	.	2028
1.00-1.49	.	.	144	297	13	5	1	.	.	.	460
1.50-1.99	.	.	1	206	106	.	1	.	.	.	313
2.00-2.49	94	.	.	.	.	.	95
2.50-2.99	11	19	.	1	.	.	31
3.00-3.49	8	.	.	.	.	8
3.50-3.99	1	2	.	.	.	3
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	712	1582	1674	904	302	51	5	1	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.8 MEAN TP(SEC)= 3.8 NO. OF CASES= 4902.

STATION H04 43.47N 82.52W AZIMUTH(DEGREES) = 157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1145	1725	589	242	39	4	1	.	.	.	3745
0.50-0.99	.	2480	657	445	116	13	4	.	.	.	3715
1.00-1.49	.	.	345	226	80	8	2	.	.	.	661
1.50-1.99	.	.	67	140	64	4	1	.	.	.	276
2.00-2.49	.	.	.	9	35	3	.	1	.	.	48
2.50-2.99	.	.	.	1	7	12	1	.	.	.	21
3.00-3.49	2	1	.	.	.	3
3.50-3.99	1	.	.	.	.	1
4.00-4.49	1	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1145	4205	1658	1063	341	47	11	1	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 4.2 MEAN TP(SEC)= 3.5 NO. OF CASES= 7932.

STATION H04 43.47N 82.52W AZIMUTH(DEGREES) =180.0										
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	1783	1705	417	259	71	13	1	.	.	4249
0.50-0.99	.	2831	606	120	42	12	4	.	.	3615
1.00-1.49	.	.	588	4	1	1	3	.	.	600
1.50-1.99	.	.	157	57	1	1	1	.	.	216
2.00-2.49	.	.	.	16	.	1	.	1	.	18
2.50-2.99	0
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1783	4536	1768	456	118	27	9	1	0	0

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.4 MEAN TP(SEC)= 3.2 NO. OF CASES= 8143.

STATION H04 43.47N 82.52W AZIMUTH(DEGREES) =202.5										
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	1355	1003	344	245	72	16	1	.	.	3036
0.50-0.99	.	2410	1057	128	55	18	5	.	.	3673
1.00-1.49	.	.	788	3	5	5	3	.	.	799
1.50-1.99	.	.	25	218	1	1	1	.	.	244
2.00-2.49	.	.	.	13	2	.	.	.	.	15
2.50-2.99	4	.	.	.	.	4
3.00-3.49	2	.	.	.	.	2
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1355	3413	2214	604	138	39	10	0	0	0

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.1 MEAN TP(SEC)= 3.3 NO. OF CASES= 7276.

STATION H04 43.47N 82.52W AZIMUTH(DEGREES) =225.0										
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	1181	724	381	333	112	17	2	.	.	2750
0.50-0.99	.	2042	1054	139	83	24	6	1	.	3349
1.00-1.49	.	.	734	5	5	3	2	.	.	744
1.50-1.99	.	.	4	252	1	1	1	.	.	257
2.00-2.49	.	.	.	34	12	.	.	.	.	46
2.50-2.99	18	.	.	.	.	18
3.00-3.49	7	.	.	.	.	7
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1181	2766	2173	758	237	44	11	1	0	0

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.4 MEAN TP(SEC)= 3.5 NO. OF CASES= 6714.

STATION H04 43.47N 82.52W AZIMUTH(DEGREES) =247.5										
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	879	681	285	280	118	23	5	.	.	2271
0.50-0.99	.	1871	656	150	133	72	18	3	1	2904
1.00-1.49	.	.	591	1	17	18	7	1	.	635
1.50-1.99	.	.	48	160	5	1	2	1	.	212
2.00-2.49	.	.	.	35	3	.	.	.	.	40
2.50-2.99	4	.	.	.	.	3
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	879	2552	1580	626	280	114	32	5	1	0

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.1 MEAN TP(SEC)= 3.6 NO. OF CASES= 5684.

STATION H04 43.47N 82.52W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	845	835	265	299	148	38	3				2433
0.50-0.99		2148	544	279	341	160	44				3521
1.00-1.49			595	73	45	117	35	3			799
1.50-1.99			120	24	1	22	12	2	1		231
2.00-2.49						1	4				29
2.50-2.99					3		2				5
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	845	2983	1524	679	538	338	100	10	1	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.7 MEAN TP(SEC)= 3.8 NO. OF CASES= 6575.

STATION H04 43.47N 82.52W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	715	638	223	202	110	24	2				1914
0.50-0.99		1952	577	270	373	183	42				3397
1.00-1.49			607	7	133	173	51	5			876
1.50-1.99			118	119	9	83	51	5			385
2.00-2.49				28		12	40	2			82
2.50-2.99					2	2	1	1	1		19
3.00-3.49					1		1	2	1		5
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	715	2590	1525	626	628	477	200	15	2	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.3 MEAN TP(SEC)= 4.0 NO. OF CASES= 6353.

STATION H04 43.47N 82.52W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	506	528	297	213	78	9	2				1633
0.50-0.99		1536	786	343	336	103	21	1			3126
1.00-1.49			823	72	375	226	58	1	2		1557
1.50-1.99			129	340	72	198	72	3			816
2.00-2.49				79	14	85	87	18			273
2.50-2.99				4	7	9	51	1	1		83
3.00-3.49					2		13	9			24
3.50-3.99					1	2	3	4	1		11
4.00-4.49							2				2
4.50-4.99											1
5.00-5.49									1		0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	506	2064	2035	1051	885	632	309	39	5	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.8 MEAN TP(SEC)= 4.4 NO. OF CASES= 7057.

STATION H04 43.47N 82.52W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

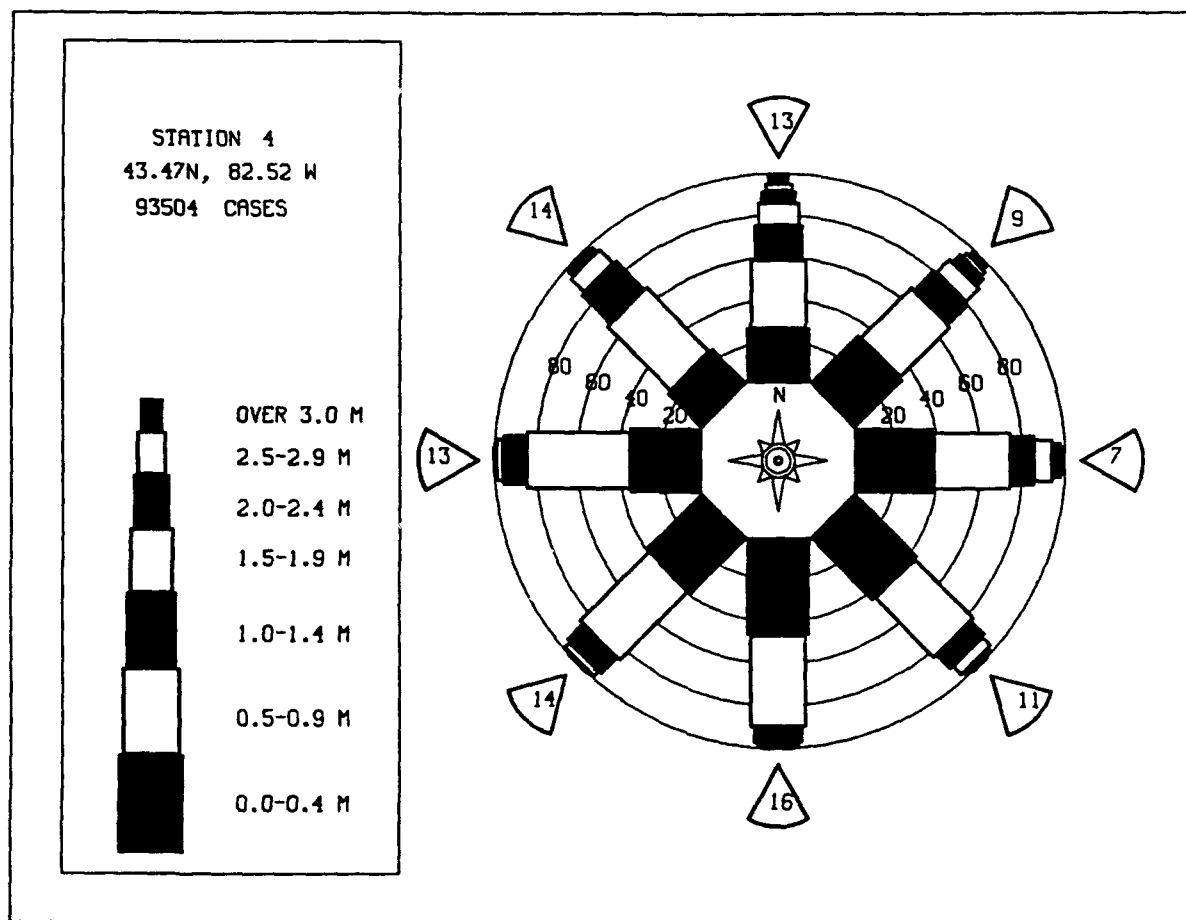
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	426	499	289	187	54	11	1				1467
0.50-0.99		804	635	390	280	50	5	1			2165
1.00-1.49			386	206	349	152	26		1		1120
1.50-1.99			31	226	151	139	43	1			591
2.00-2.49				24	124	70	60	3			281
2.50-2.99				2	23	52	49	2	1		129
3.00-3.49					1	32	35	9			77
3.50-3.99						7	25	5	1		39
4.00-4.49							14	3			17
4.50-4.99							1	4	2		7
5.00-5.49								4			4
5.50-5.99								1	2		3
6.00-6.49									1	1	1
6.50-6.99									1	1	2
7.00+									1	1	2
TOTAL	426	1303	1341	1035	983	513	259	33	10	2	

MEAN HS(M) = 1.0 LARGEST HS(M)= 7.0 MEAN TP(SEC)= 4.6 NO. OF CASES= 5540.

STATION H04 43.47N 82.52W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1231	1289	532	336	102	18	2	.	.	.	3510
0.50-0.99	.	2132	1247	427	251	74	16	1	.	.	4148
1.00-1.49	.	.	665	271	179	94	20	1	.	.	1230
1.50-1.99	.	.	71	345	123	71	24	1	.	.	635
2.00-2.49	.	.	.	28	141	34	29	1	.	.	233
2.50-2.99	36	48	21	2	.	.	107
3.00-3.49	2	30	14	3	.	.	49
3.50-3.99	8	18	2	.	.	28
4.00-4.49	12	2	.	.	14
4.50-4.99	5	4	.	.	9
5.00-5.49	2	.	.	2
5.50-5.99	1	.	.	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1231	3421	2515	1407	834	377	161	20	0	0	

MEAN HS(M)= 0.8 LARGEST HS(M)= 7.5 MEAN TP(SEC)= 3.9 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H04 (43.47N 82.52W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	1.0	0.6	0.8	0.8	0.7	0.6	0.4	0.4	0.5	0.7	0.7	0.7	0.7
1957	0.8	0.7	0.7	0.7	0.8	0.5	0.5	0.5	0.5	0.8	0.9	0.9	0.7
1958	1.0	1.3	0.7	0.9	0.8	0.8	0.5	0.7	0.9	0.9	1.1	0.9	0.9
1959	1.1	1.2	1.0	1.2	1.0	0.8	0.7	0.8	0.9	1.1	1.0	1.3	1.0
1960	1.1	1.4	1.1	1.1	0.9	0.6	0.5	0.5	0.5	0.6	1.1	1.1	0.9
1961	1.1	1.0	1.2	1.0	0.9	0.8	0.5	0.5	0.6	0.8	0.8	0.8	0.8
1962	0.9	0.9	0.9	0.9	0.7	0.6	0.6	0.6	0.8	0.7	0.8	0.9	0.7
1963	0.9	0.9	0.9	0.9	0.6	0.4	0.6	0.6	0.7	0.7	0.9	0.7	0.7
1964	1.0	0.9	1.1	1.1	0.9	0.6	0.5	0.7	0.7	1.0	0.8	0.8	0.8
1965	1.1	1.1	1.0	0.8	0.8	0.7	0.6	0.6	0.7	1.1	0.8	0.8	0.8
1966	1.0	0.9	0.8	0.8	0.7	0.5	0.6	0.6	0.7	0.8	0.8	0.9	0.8
1967	1.0	1.1	1.0	0.9	0.7	0.8	0.7	0.7	0.8	0.8	1.3	1.4	1.0
1968	1.0	1.1	1.0	1.0	0.8	0.7	0.5	0.5	0.8	0.8	1.1	1.1	0.8
1969	0.7	1.1	0.8	1.0	0.8	0.7	0.6	0.5	0.7	1.1	1.2	1.0	0.8
1970	1.1	1.1	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.5	1.1	0.8	0.8
1971	0.8	0.8	1.1	1.1	0.8	0.9	0.4	0.5	0.6	0.8	0.8	0.8	0.7
1972	0.8	0.8	1.1	1.1	0.8	0.8	0.4	0.4	0.6	0.8	0.8	0.8	0.7
1973	1.0	0.8	0.9	0.9	0.6	0.4	0.4	0.4	0.6	0.6	0.7	0.7	0.7
1974	0.6	0.8	1.0	0.8	0.6	0.5	0.4	0.3	0.6	0.6	0.7	0.7	0.6
1975	0.8	0.8	0.7	0.8	0.4	0.4	0.3	0.4	0.5	0.7	0.7	0.9	0.7
1976	0.9	0.8	1.0	0.9	0.7	0.5	0.6	0.5	0.6	0.7	0.7	0.7	0.7
1977	0.7	0.8	0.9	0.7	0.6	0.6	0.4	0.4	0.4	0.7	0.7	0.8	0.7
1978	1.0	0.6	0.6	1.0	0.7	0.6	0.6	0.4	0.6	0.7	0.7	0.8	0.7
1979	1.0	1.0	0.7	0.9	0.7	0.6	0.4	0.5	0.5	0.6	0.6	0.9	0.7
1980	0.8	0.7	1.0	0.8	0.5	0.6	0.3	0.4	0.5	0.7	0.8	0.9	0.7
1981	0.7	0.9	1.0	0.8	0.8	0.5	0.5	0.4	0.6	0.7	0.8	0.9	0.7
1982	1.0	0.8	0.7	1.0	0.6	0.5	0.4	0.5	0.5	0.5	0.7	0.8	0.7
1983	0.8	0.7	1.1	1.0	0.8	0.4	0.5	0.4	0.5	0.6	1.4	0.9	0.8
1984	0.7	0.9	1.2	1.0	0.7	0.5	0.4	0.4	0.5	0.5	1.7	0.6	0.7
1985	0.9	0.6	1.0	0.8	0.7	0.6	0.6	0.4	0.5	0.6	1.0	0.7	0.7
1986	1.0	0.8	0.9	0.9	0.7	0.6	0.5	0.5	0.5	0.5	0.7	0.7	0.7
1987	0.7	0.6	0.7	0.8	0.6	0.4	0.4	0.5	0.4	0.6	0.8	0.8	0.6
MEAN	0.9	0.9	0.9	0.9	0.7	0.6	0.5	0.5	0.6	0.7	0.9	0.9	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H04 (43.47N 82.52W)

YEAR	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	4.1	3.1	4.6	2.7	2.4	2.0	1.5	1.4	1.7	2.9	2.9	2.0	
1957	3.1	3.1	3.1	2.1	2.4	2.0	1.5	1.4	1.7	2.9	2.9	2.0	
1958	4.8	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	
1959	3.2	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1960	4.2	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1961	4.8	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1962	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1963	4.3	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1964	3.5	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1965	3.5	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1966	3.5	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1967	3.5	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1968	2.5	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1969	2.5	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1970	2.0	4.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1971	4.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1972	2.4	3.0	3.7	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1973	2.4	3.0	3.7	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1974	2.0	2.7	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1975	2.4	2.7	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1976	2.7	3.1	2.4	4.4	2.2	2.2	2.8	2.0	2.1	2.7	2.4	3.3	
1977	2.6	2.5	2.4	3.0	4.6	2.8	2.0	2.0	2.1	2.7	2.4	3.3	
1978	3.6	3.3	2.5	3.3	2.7	3.6	1.9	2.0	2.0	2.0	2.0	2.0	
1979	2.8	3.3	2.9	3.3	4.3	2.5	1.5	2.6	2.4	2.4	2.1	5.9	
1980	2.5	2.8	4.4	3.3	2.7	3.3	1.7	1.7	1.9	2.2	2.9	4.4	
1981	2.5	2.8	4.4	3.3	2.7	3.3	1.7	1.7	1.9	2.2	2.9	4.4	
1982	3.7	2.6	2.0	3.3	2.5	2.3	1.1	2.4	1.7	2.1	3.1	2.6	
1983	2.6	2.6	2.0	3.3	4.6	2.0	1.9	2.0	1.9	2.0	7.2	4.1	
1984	2.9	6.4	5.8	4.0	3.1	1.5	1.4	1.4	1.4	1.8	5.5	1.9	
1985	3.2	1.9	3.0	3.0	3.1	1.5	1.6	1.6	1.5	2.0	3.2	2.8	
1986	4.2	3.8	2.8	3.6	2.2	2.5	1.5	1.5	1.5	1.8	2.4	2.3	
1987	1.9	4.6	3.9	3.6	2.1	1.6	1.4	1.6	1.6	1.7	2.6	3.2	

32 YR. STATISTICS FOR WIS STATION H04

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.8
MEAN PEAK WAVE PERIOD	(SECONDS)	3.9
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	180.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.6
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.4
LARGEST WAVE HS	(METERS)	7.5
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	10.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	9.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		68011518

STATION H05 43 N 82.52W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	546	838	465	239	43	5	2	.	.	.	2136
0.50-0.99	.	668	1089	610	232	38	2	.	.	.	2639
1.00-1.49	.	1	255	419	418	62	5	.	.	.	1180
1.50-1.99	.	.	5	356	335	167	12	.	.	.	875
2.00-2.49	.	.	.	5	247	119	49	.	.	.	420
2.50-2.99	24	144	69	7	.	.	244
3.00-3.49	4	66	62	6	1	.	139
3.50-3.99	7	69	10	.	.	86
4.00-4.49	48	20	1	.	69
4.50-4.99	6	20	4	.	30
5.00-5.49	11	3	.	14
5.50-5.99	6	4	.	10
6.00-6.49	1	1	.	5
6.50-6.99	1	1
7.00+	1
TOTAL	546	1507	1814	1629	1303	628	322	81	18	1	7358.

MEAN HS(M) = 1.0 LARGEST HS(M)= 7.2 MEAN TP(SEC)= 4.7 NO. OF CASES= 7358.

STATION H05 43.62N 82.52W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	391	623	312	152	38	1	.	.	.	.	1517
0.50-0.99	.	390	836	459	140	14	4	.	.	.	1843
1.00-1.49	.	.	129	295	238	49	.	.	.	.	711
1.50-1.99	.	.	1	197	191	101	10	.	.	.	500
2.00-2.49	.	.	.	1	152	75	29	.	.	.	257
2.50-2.99	24	72	34	1	.	.	131
3.00-3.49	37	12	3	.	.	52
3.50-3.99	3	37	4	.	.	44
4.00-4.49	31	4	.	.	35
4.50-4.99	5	8	.	.	13
5.00-5.49	2	4	.	.	6
5.50-5.99	2	.	.	2
6.00-6.49	1	.	.	1
6.50-6.99	2	.	2
7.00+	1	.	1
TOTAL	391	1013	1278	1104	783	352	164	27	3	0	4800.

MEAN HS(M) = 1.0 LARGEST HS(M)= 7.2 MEAN TP(SEC)= 4.5 NO. OF CASES= 4800.

STATION H05 43.62N 82.52W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	374	626	367	158	36	2	.	.	.	.	1563
0.50-0.99	.	380	728	389	125	13	.	.	.	.	1645
1.00-1.49	.	.	114	275	191	45	1	.	.	.	626
1.50-1.99	.	.	.	191	174	42	10	.	.	.	417
2.00-2.49	.	.	.	2	197	33	14	.	.	.	246
2.50-2.99	29	114	12	.	.	.	155
3.00-3.49	88	22	.	.	.	110
3.50-3.99	12	43	.	.	.	55
4.00-4.49	38	3	.	.	41
4.50-4.99	21	2	.	.	23
5.00-5.49	9	3	.	.	12
5.50-5.99	8	1	.	9
6.00-6.49	1	.	.	1
6.50-6.99	0
7.00+	0
TOTAL	374	1006	1209	1025	752	349	170	17	1	0	4604.

MEAN HS(M) = 1.0 LARGEST HS(M)= 6.1 MEAN TP(SEC)= 4.5 NO. OF CASES= 4604.

STATION H05 43.62N 82.52W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	319	488	275	84	19	1	.	.	.	.	1186
0.50-0.99	.	353	626	313	100	7	.	.	.	.	1399
1.00-1.49	.	.	86	238	83	37	1	.	.	.	445
1.50-1.99	.	.	.	152	79	20	5	.	.	.	256
2.00-2.49	95	5	2	.	.	.	102
2.50-2.99	33	24	1	.	.	.	58
3.00-3.49	28	2	.	.	.	30
3.50-3.99	4	3	1	.	.	8
4.00-4.49	5	.	.	.	5
4.50-4.99	4	.	.	.	4
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	319	841	987	787	409	126	23	1	0	0	3279.

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.7 MEAN TP(SEC)= 4.2 NO. OF CASES= 3279.

STATION H05 43.62N 82.52W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	405	624	351	102	32	.	1	.	.	.	1515
0.50-0.99	.	352	633	239	62	8	1	.	.	.	1295
1.00-1.49	.	.	103	232	38	5	2	.	.	.	380
1.50-1.99	.	.	.	206	55	5	2	.	.	.	268
2.00-2.49	.	.	.	2	111	2	4	.	.	.	119
2.50-2.99	33	5	3	.	.	.	41
3.00-3.49	17	1	1	.	.	18
3.50-3.99	8	1	.	.	.	9
4.00-4.49	2	.	.	.	2
4.50-4.99	1	.	.	.	1
5.00-5.49	1	.	.	.	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	405	976	1087	781	331	50	18	1	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 5.2 MEAN TP(SEC)= 4.0 NO. OF CASES= 3422.

STATION H05 43.62N 82.52W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	378	607	231	104	20	2	.	.	.	.	1342
0.50-0.99	.	363	705	174	48	7	2	.	.	.	1299
1.00-1.49	.	.	95	286	11	6	.	.	.	.	398
1.50-1.99	.	.	.	229	94	2	2	.	.	.	327
2.00-2.49	.	.	.	2	147	.	.	.	.	.	149
2.50-2.99	28	19	.	2	.	.	49
3.00-3.49	11	.	.	.	.	11
3.50-3.99	4	2	.	.	.	6
4.00-4.49	1	.	.	.	1
4.50-4.99	1	.	.	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	378	970	1031	795	348	51	8	2	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.8 MEAN TP(SEC)= 4.0 NO. OF CASES= 3361.

STATION H05 43.62N 82.52W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	614	1004	346	158	35	6	.	.	.	.	2163
0.50-0.99	.	541	1121	240	37	9	1	.	.	.	1949
1.00-1.49	.	.	109	332	13	8	3	.	.	.	465
1.50-1.99	.	.	.	206	83	1	1	.	.	.	291
2.00-2.49	75	1	.	1	.	.	77
2.50-2.99	.	.	.	1	9	7	.	.	.	.	17
3.00-3.49	7	.	.	.	.	7
3.50-3.99	2	.	.	.	.	2
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	614	1545	1576	937	252	41	5	1	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.5 MEAN TP(SEC)= 3.8 NO. OF CASES= 4659.

STATION H05 43.62N 82.52W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	882	1799	495	223	35	4	.	.	.	.	3438
0.50-0.99	.	1536	1422	473	57	8	3	.	.	.	3499
1.00-1.49	.	.	759	370	38	1	.	.	.	.	1168
1.50-1.99	.	.	10	325	116	3	.	.	.	.	454
2.00-2.49	.	.	.	33	57	6	1	.	.	.	97
2.50-2.99	18	17	1	.	.	.	36
3.00-3.49	1	7	1	.	.	.	9
3.50-3.99	1	2	.	.	.	3
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	882	3335	2686	1424	322	47	8	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.8 MEAN TP(SEC)= 3.7 NO. OF CASES= 8149.

STATION H05 43.62N 82.52W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	1438	1793	393	242	66	9	2	.	.	.	3943
0.50-0.99	.	2706	1537	103	41	13	4	.	.	.	4404
1.00-1.49	.	.	1745	312	6	4	2	.	.	.	2069
1.50-1.99	.	.	12	650	.	.	.	.	.	.	662
2.00-2.49	.	.	.	101	69	1	1	.	.	.	171
2.50-2.99	24	.	.	1	.	.	26
3.00-3.49	4	1	.	.	.	.	5
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1438	4499	3687	1408	210	28	9	1	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.2 MEAN TP(SEC)= 3.5 NO. OF CASES= 10559.

STATION H05 43.62N 82.52W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	1147	1145	328	234	70	12	.	.	.	.	2936
0.50-0.99	.	2485	1175	87	53	17	2	.	.	.	3819
1.00-1.49	.	.	796	70	3	3	1	.	.	.	873
1.50-1.99	.	.	44	297	.	.	1	.	.	.	342
2.00-2.49	.	.	.	38	12	.	1	.	.	.	51
2.50-2.99	13	.	.	.	.	.	13
3.00-3.49	1	.	.	.	.	.	1
3.50-3.99	1	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1147	3630	2343	726	152	33	5	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.8 MEAN TP(SEC)= 3.4 NO. OF CASES= 7524.

STATION H05 43.62N 82.52W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	996	808	391	349	86	12	.	.	.	.	2642
0.50-0.99	.	1872	899	133	72	20	10	1	.	.	3007
1.00-1.49	.	.	602	1	6	4	3	.	.	.	616
1.50-1.99	.	.	7	218	.	.	2	.	.	.	227
2.00-2.49	.	.	.	37	8	.	.	.	.	.	45
2.50-2.99	13	.	.	.	.	.	13
3.00-3.49	9	.	.	.	.	.	9
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	996	2680	1899	738	194	36	15	1	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.2 MEAN TP(SEC)= 3.5 NO. OF CASES= 6144.

STATION H05 43.62N 82.52W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	714	704	278	302	129	17	2	.	.	.	2146
0.50-0.99	.	1648	426	143	140	67	17	3	.	.	2444
1.00-1.49	.	.	418	9	12	12	8	1	.	.	448
1.50-1.99	.	.	35	114	2	2	.	.	.	.	151
2.00-2.49	.	.	.	22	4	.	.	.	.	.	24
2.50-2.99	0
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	714	2352	1157	581	284	98	27	4	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.8 MEAN TP(SEC)= 3.6 NO. OF CASES= 4886.

STATION H05 43.62N 82.52W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	758	821	330	318	129	29	2	.	.	.	2387
0.50-0.99	.	1796	397	262	322	166	48	3	.	.	2994
1.00-1.49	.	.	449	2	54	117	38	3	.	.	663
1.50-1.99	.	.	79	48	3	26	13	1	1	.	171
2.00-2.49	.	.	.	10	.	.	2	.	.	.	13
2.50-2.99	.	.	.	1	2	.	.	.	.	.	3
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	758	2617	1255	641	510	338	106	7	1	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.7 MEAN TP(SEC)= 3.8 NO. OF CASES= 5840.

STATION H05 43.62N 82.52W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	628	637	254	227	105	26	1	.	.	.	1878
0.50-0.99	.	1809	491	318	386	170	38	1	.	.	3213
1.00-1.49	.	1	442	20	167	185	59	4	.	.	878
1.50-1.99	.	.	101	70	19	87	48	6	.	.	331
2.00-2.49	.	.	.	16	3	24	42	1	.	.	86
2.50-2.99	.	.	.	2	.	.	10	1	2	.	15
3.00-3.49	3	4	.	.	7
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	628	2447	1288	653	680	492	201	17	2	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.2 MEAN TP(SEC)= 4.1 NO. OF CASES= 6007.

STATION H05 43.62N 82.52W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	483	555	389	236	94	9	2	.	.	.	1768
0.50-0.99	.	1583	657	429	382	120	26	1	.	.	3208
1.00-1.49	.	.	625	106	425	211	25	3	1	.	1434
1.50-1.99	.	.	126	221	105	226	57	6	.	.	741
2.00-2.49	.	.	.	49	8	128	88	7	.	.	280
2.50-2.99	.	.	.	3	3	11	55	10	1	.	83
3.00-3.49	12	9	.	.	24
3.50-3.99	1	.	5	5	1	.	12
4.00-4.49	2	1	.	.	3
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	483	2138	1797	1044	1031	705	310	42	3	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.4 MEAN TP(SEC)= 4.5 NO. OF CASES= 7082.

STATION H05 43.62N 82.52W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	386	583	349	210	63	5	1	.	.	.	1597
0.50-0.99	.	820	630	515	304	63	6	.	.	.	2338
1.00-1.49	.	.	36	241	422	166	35	.	1	.	1151
1.50-1.99	.	.	26	173	199	154	43	.	.	.	595
2.00-2.49	.	.	.	20	89	116	51	3	.	.	279
2.50-2.99	12	57	57	6	2	.	134
3.00-3.49	20	28	9	.	.	57
3.50-3.99	2	25	5	1	.	33
4.00-4.49	1	4	5	.	.	10
4.50-4.99	7	4	.	11
5.00-5.49	0
5.50-5.99	1	4	1	6
6.00-6.49	1	1	2
6.50-6.99	0
7.00+	0
TOTAL	386	1403	1291	1159	1089	584	250	36	13	2	

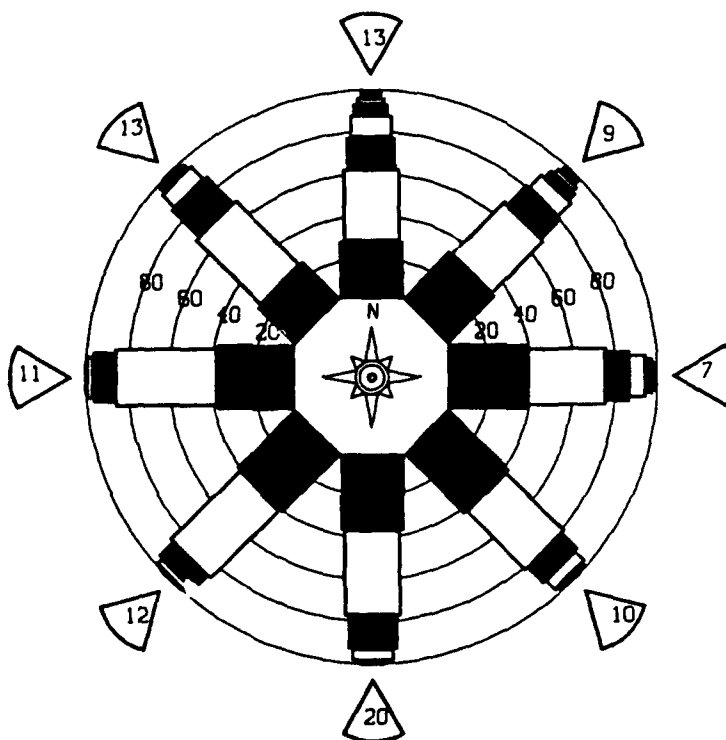
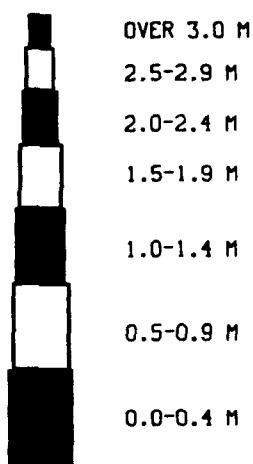
MEAN HS(M) = 0.9 LARGEST HS(M)= 6.9 MEAN TP(SEC)= 4.7 NO. OF CASES= 5830.

STATION H05 43.62N 82.52W FOR ALL DIRECTIONS
 PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	1046	1366	556	334	100	14	1	.	.	.	3417
0.50-0.99	.	1931	1338	490	251	74	16	.	.	.	4100
1.00-1.49	.	.	702	320	213	94	22	1	.	.	1352
1.50-1.99	.	.	45	365	145	84	21	1	.	.	661
2.00-2.49	.	.	.	34	128	51	28	1	.	.	242
2.50-2.99	27	47	24	1	.	.	100
3.00-3.49	2	28	14	1	.	.	47
3.50-3.99	4	19	1	.	.	25
4.00-4.49	13	1	.	.	16
4.50-4.99	3	1	.	.	6
5.00-5.49	1	1	.	.	2
5.50-5.99	1	.	.	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1046	3297	2641	1543	866	396	162	18	0	0	93504

MEAN HS(M)= 0.8 LARGEST HS(M)= 7.2 MEAN TP(SEC)= 4.0 TOTAL CASES= 93504.

STATION 5
 43.62N, 82.52 W
 93504 CASES



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H05 (43.62N 82.52W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	1.0	0.7	0.9	0.8	0.8	0.6	0.5	0.4	0.6	0.8	0.8	0.7	0.7
1957	0.8	0.7	0.7	0.7	0.8	0.6	0.5	0.5	0.6	0.8	0.9	0.9	0.7
1958	1.0	1.3	0.7	0.9	0.8	0.9	0.6	0.7	1.0	1.0	1.1	1.1	0.9
1959	1.2	1.2	1.1	1.2	1.1	0.9	0.8	0.8	1.1	1.2	1.1	1.1	1.1
1960	1.1	1.5	1.2	0.9	0.9	0.7	0.6	0.6	0.6	0.7	1.2	1.2	0.6
1961	1.1	1.1	1.3	1.0	0.9	0.8	0.5	0.6	0.6	0.9	0.8	0.0	0.9
1962	1.0	0.9	0.7	0.9	0.7	0.6	0.7	0.5	0.8	0.6	0.9	1.0	0.8
1963	0.9	0.9	0.9	1.0	0.7	0.5	0.6	0.6	0.7	0.6	0.9	0.8	0.8
1964	1.0	0.8	1.2	1.0	0.9	0.7	0.7	0.7	0.7	0.8	0.8	0.9	0.8
1965	1.1	1.2	1.0	0.8	0.7	0.7	0.6	0.6	0.7	1.0	0.9	0.9	0.8
1966	1.0	0.8	1.0	0.9	0.8	0.9	0.6	0.6	0.8	0.9	0.8	0.8	0.8
1967	1.1	1.2	0.8	0.9	0.8	0.5	0.7	0.6	0.7	0.9	0.8	0.9	0.8
1968	1.1	1.2	1.0	1.1	1.2	1.0	0.8	0.6	0.7	0.9	0.8	1.1	1.1
1969	1.0	0.9	0.8	1.1	0.8	0.7	0.7	0.5	0.9	0.9	0.8	1.1	1.1
1970	0.7	1.0	0.8	1.0	0.8	0.6	0.4	0.4	0.9	1.1	1.1	1.1	0.8
1971	1.0	0.8	1.2	1.1	0.8	0.5	0.5	0.5	0.9	0.5	0.8	0.8	0.8
1972	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1973	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1974	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1975	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1976	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1977	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1978	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1979	0.8	1.0	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1980	0.7	0.7	1.0	0.8	0.5	0.6	0.3	0.4	0.5	0.7	0.8	0.8	0.8
1981	0.7	1.0	0.7	0.8	0.5	0.5	0.5	0.4	0.5	0.7	0.8	0.8	0.8
1982	1.0	0.7	0.7	1.0	0.6	0.5	0.4	0.5	0.5	0.5	0.7	0.8	0.8
1983	0.8	0.7	1.1	0.8	0.7	0.5	0.4	0.4	0.5	0.5	1.3	0.8	0.8
1984	0.7	0.6	1.2	1.0	0.7	0.5	0.3	0.3	0.5	0.5	0.8	0.8	0.8
1985	0.9	0.9	1.0	0.8	0.7	0.5	0.6	0.4	0.5	0.5	0.9	0.7	0.7
1986	1.0	0.7	0.9	0.8	0.7	0.6	0.5	0.5	0.5	0.5	0.7	0.7	0.7
1987	0.7	0.6	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.9	0.9	0.7
MEAN	0.9	0.9	0.9	0.9	0.7	0.6	0.5	0.5	0.6	0.7	0.9	0.9	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H05 (43.62N 82.52W)

YEAR	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	4.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1957	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1958	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1959	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1960	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1961	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1962	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1963	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1964	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1965	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1966	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1967	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1968	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1969	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1970	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1971	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1972	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1973	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1974	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1975	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1976	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1977	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1978	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1979	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1980	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1981	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1982	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1983	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1984	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1985	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1986	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	
1987	3.1	3.0	4.8	2.7	2.4	2.1	1.5	1.6	1.8	3.1	2.8	2.0	

32 YR. STATISTICS FOR WIS STATION H05

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.8
MEAN PEAK WAVE PERIOD	(SECONDS)	4.0
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	180.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.6
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.4
LARGEST WAVE HS	(METERS)	7.2
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	355.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		61031000

STATION H06 43.75N 82.52W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	421	872	486	207	40	7	5	.	.	.	2033
0.50-0.99	.	551	999	742	232	34	5	.	.	.	2563
1.00-1.49	.	.	164	383	460	56	9	.	.	.	1072
1.50-1.99	.	.	5	249	363	203	8	.	.	.	828
2.00-2.49	.	.	.	5	158	131	58	.	.	.	352
2.50-2.99	24	137	70	.	.	.	235
3.00-3.49	2	58	56	.	.	.	123
3.50-3.99	2	66	13	2	.	83
4.00-4.49	39	16	.	.	55
4.50-4.99	5	12	1	.	18
5.00-5.49	13	2	.	15
5.50-5.99	3	2	.	7
6.00-6.49	1	.	.	3
6.50-6.99	1	1	0
7.00+	2
TOTAL	421	1423	1654	1586	1279	628	316	69	12	1	6931.

MEAN HS(M) = 1.0 LARGEST HS(M)= 7.1 MEAN TP(SEC)= 4.7 NO. OF CASES= 6931.

STATION H06 43.75N 82.52W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	280	628	340	137	33	.	.	.	.	.	1418
0.50-0.99	.	333	797	550	145	8	.	.	.	.	1833
1.00-1.49	.	.	89	306	301	37	2	.	.	.	735
1.50-1.99	.	.	2	146	207	104	6	.	.	.	465
2.00-2.49	.	.	.	3	119	97	32	.	.	.	251
2.50-2.99	10	69	41	.	.	.	120
3.00-3.49	1	27	20	.	.	.	50
3.50-3.99	31	.	.	.	33
4.00-4.49	19	.	.	.	25
4.50-4.99	9	.	.	.	16
5.00-5.49	3	.	.	5
5.50-5.99	2	.	0
6.00-6.49	0
6.50-6.99	1	.	0
7.00+	1
TOTAL	280	961	1228	1142	816	342	160	25	3	0	4652.

MEAN HS(M) = 0.9 LARGEST HS(M)= 7.1 MEAN TP(SEC)= 4.6 NO. OF CASES= 4652.

STATION H06 43.75N 82.52W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	341	655	340	151	23	2	1	.	.	.	1512
0.50-0.99	.	358	789	488	113	6	.	.	.	.	1755
1.00-1.49	.	.	109	296	234	40	.	.	.	.	678
1.50-1.99	.	.	2	177	188	58	4	.	.	.	429
2.00-2.49	.	.	.	1	154	74	17	.	.	.	246
2.50-2.99	28	117	21	.	.	.	166
3.00-3.49	75	36	.	.	.	111
3.50-3.99	7	60	.	.	.	67
4.00-4.49	43	.	.	.	43
4.50-4.99	25	.	.	.	32
5.00-5.49	7	.	.	12
5.50-5.99	9	.	.	9
6.00-6.49	3	4	.	7
6.50-6.99	0
7.00+	0
TOTAL	341	1013	1240	1113	740	379	207	31	4	0	4755.

MEAN HS(M) = 1.0 LARGEST HS(M)= 6.4 MEAN TP(SEC)= 4.6 NO. OF CASES= 4755.

STATION H06 43.75N 82.52W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	276	534	275	85	18	.	.	.	.	.	1188
0.50-0.99	.	340	632	330	80	10	.	.	.	.	1392
1.00-1.49	.	.	83	254	79	20	1	.	.	.	437
1.50-1.99	.	.	.	128	93	25	2	.	.	.	248
2.00-2.49	.	.	.	3	88	14	1	.	.	.	106
2.50-2.99	31	21	3	.	.	.	53
3.00-3.49	1	22	.	.	.	.	23
3.50-3.99	5	11	.	.	.	16
4.00-4.49	5	.	.	.	5
4.50-4.99	1	.	.	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	276	874	990	800	390	117	27	1	0	0	3261.

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.8 MEAN TP(SEC)= 4.2 NO. OF CASES= 3261.

STATION H06 43.75N 82.52W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	370	643	345	98	25						1481
0.50-0.99		379	703	252	67	5	1				1407
1.00-1.49			106	233	36	8	3				385
1.50-1.99				202	72	7	3				284
2.00-2.49				4	101	3	7				115
2.50-2.99					36	8	2	1			47
3.00-3.49						19		1			20
3.50-3.99						9	1				10
4.00-4.49							1				2
4.50-4.99							2				2
5.00-5.49							1				1
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	370	1022	1154	789	337	59	21	2	0	0	
MEAN HS (M) = 0.7	LARGEST HS (M) = 5.2		MEAN TP (SEC) = 4.0		NO. OF CASES = 3522.						

MEAN HS(M) = 0.7 LARGEST HS(M)= 5.2 MEAN TP(SEC)= 4.0 NO. OF CASES= 3522.

STATION H06 43.75N 82.52W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	389	613	233	114	14	2	1	.	.	.	1366
0.50-0.99	.	402	715	192	40	4	2	.	.	.	1355
1.00-1.49	.	.	87	264	16	8	.	.	.	.	375
1.50-1.99	.	.	.	172	120	2	2	.	.	.	296
2.00-2.49	126	4	.	.	.	.	130
2.50-2.99	18	39	.	2	.	.	59
3.00-3.49	22	.	.	.	.	22
3.50-3.99	1	.	.	.	1
4.00-4.49	2	.	.	.	2
4.50-4.99	1	.	.	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	389	1015	1035	742	334	81	9	2	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.7 MEAN TP(SEC)= 4.0 NO. OF CASES= 3382.

STATION H06 43.75N 82.52W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	562	943	337	124	22	2	.	.	.	.	1990
0.50-0.99	.	513	1049	250	35	6	.	.	.	.	1853
1.00-1.49	.	.	88	309	16	2	.	.	.	.	417
1.50-1.99	.	.	1	90	156	.	2	.	.	.	247
2.00-2.49	.	.	.	1	71	8	.	1	.	.	81
2.50-2.99	6	26	.	.	.	.	32
3.00-3.49	10	1	.	.	.	11
3.50-3.99	1	2	.	.	.	3
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	562	1456	1475	774	306	55	5	1	0	0	

MEAN BS(M) = 0.6 LARGEST BS(M)= 3.6 MEAN TP(SEC)= 3.8 NO. OF CASES= 4342.

STATION H06 43.75N 82.52W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	811	1961	507	214	31	3	.	.	.	.	3527
0.50-0.99	.	893	1973	416	50	7	.	.	.	.	3338
1.00-1.49	.	.	442	570	79	4	.	.	.	.	1095
1.50-1.99	.	.	1	304	167	5	.	.	.	.	477
2.00-2.49	.	.	.	7	110	8	1	.	.	.	126
2.50-2.99	23	17	2	.	.	.	42
3.00-3.49	2	18	.	.	.	.	23
3.50-3.99	2	3	.	.	.	5
4.00-4.49	0
4.50-4.99	1	.	.	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	811	2654	2923	1511	462	64	10	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 4.7 MEAN TP(SEC)= 3.8 NO. OF CASES= 8084

STATION H06 43.75N 82.52W AZIMUTH(DEGREES) =180.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	1247	2105	424	232	59	5	2	.	.	.	4074
0.50-0.99	.	2077	2918	164	47	17	2	.	.	.	5225
1.00-1.49	.	.	1289	1051	10	7	3	.	.	.	2360
1.50-1.99	.	.	9	1015	49	1	.	.	.	.	1074
2.00-2.49	.	.	.	20	332	3	.	.	.	.	352
2.50-2.99	98	18	.	.	.	.	101
3.00-3.49	4	4	.	.	.	.	22
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1247	4182	4640	2482	599	55	7	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 3.7 MEAN TP(SEC)= 3.8 NO. OF CASES= 12365.

STATION H06 43.75N 82.52W AZIMUTH(DEGREES) =202.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	971	1187	346	221	59	10	.	.	.	.	2794
0.50-0.99	.	2265	1119	91	43	14	4	.	.	.	3536
1.00-1.49	.	.	700	71	1	2	1	.	.	.	775
1.50-1.99	.	.	47	296	10	.	.	.	.	.	353
2.00-2.49	.	.	.	28	45	1	1	.	.	.	74
2.50-2.99	21	1	.	.	.	.	22
3.00-3.49	2	2	.	.	.	.	4
3.50-3.99	0
4.00-4.49	0
4.50-4.99	1	.	.	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	971	3452	2212	707	181	29	7	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 4.6 MEAN TP(SEC)= 3.4 NO. OF CASES= 7079.

STATION H06 43.75N 82.52W AZIMUTH(DEGREES) =225.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	873	833	407	341	70	9	.	.	.	.	2533
0.50-0.99	.	1684	744	159	72	20	4	.	.	.	2683
1.00-1.49	.	.	545	1	2	5	2	2	.	.	557
1.50-1.99	.	.	11	193	9	.	1	.	.	.	205
2.00-2.49	.	.	.	40	9	.	2	.	.	.	51
2.50-2.99	13	.	.	.	.	.	13
3.00-3.49	8	.	.	.	.	.	8
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	873	2517	1707	734	174	34	9	2	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.2 MEAN TP(SEC)= 3.5 NO. OF CASES= 5667.

STATION H06 43.75N 82.52W AZIMUTH(DEGREES) =247.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	624	695	304	259	113	8	3	.	.	.	2006
0.50-0.99	.	1341	387	150	159	63	13	2	.	.	2115
1.00-1.49	.	.	329	2	17	16	12	.	.	.	376
1.50-1.99	.	.	27	87	1	1	.	.	.	.	115
2.00-2.49	.	.	.	19	4	.	.	.	.	.	20
2.50-2.99	4
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	624	2036	1047	517	294	88	28	2	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.8 MEAN TP(SEC)= 3.6 NO. OF CASES= 4344.

STATION H06 43.75N 82.52W AZIMUTH(DEGREES) = 270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

PERCENT OCCURRENCE (HOURS)											TOTAL
HEIGHT (METRES)	PEAK PERIOD (SECONDS)										
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	642	833	388	328	126	24	1	.	.	.	2342
0.50-0.99	.	1474	309	327	375	163	39	2	.	.	2689
1.00-1.49	.	.	335	7	90	133	34	2	.	.	601
1.50-1.99	.	.	59	42	3	33	10	1	.	.	148
2.00-2.49	.	.	.	11	.	1	6	.	.	.	18
2.50-2.99	2	.	.	.	2
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	642	2307	1091	715	594	354	92	5	0	0	5435.
MEAN HS(M) = 0.6	LARGEST HS(M)=			2.8	MEAN TP(SEC)=			4.0	NO. OF CASES=		5435.

STATION H06 43.75N 82.52W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	555	673	329	273	82	13	1				1926
0.50-0.99		1796	441	386	426	145	39	1	.	.	3244
1.00-1.49	.	.	398	98	250	191	54	3	.	.	994
1.50-1.99	.	.	98	59	62	115	36	5	1	.	376
2.00-2.49	.	.	.	13	6	51	35	2	1	.	108
2.50-2.99	.	.	.	.	1	4	22	1	1	.	29
3.00-3.49	.	.	.	.	.	.	5	2	1	.	8
3.50-3.99	.	.	.	.	.	.	.	.	.	.	0
4.00-4.49	.	.	.	.	.	.	.	.	.	.	0
4.50-4.99	.	.	.	.	.	.	.	.	.	.	0
5.00-5.49	.	.	.	.	.	.	.	.	.	.	0
5.50-5.99	.	.	.	.	.	.	.	.	.	.	0
6.00-6.49	.	.	.	.	.	.	.	.	.	.	0
6.50-6.99	.	.	.	.	.	.	.	.	.	.	0
7.00+	.	.	.	.	.	.	.	.	.	.	0
TOTAL	555	2469	1266	839	827	519	192	14	4	0	6266.
MEAN HS (M) = 0.7	LARGEST HS (M) = 3.4			MEAN TP (SEC) = 4.2			NO. OF CASES =			6266.	

STATION H06 43.75N 82.52W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	405	570	424	267	99	10	1	.	.	.	1776
0.50-0.99	.	1601	577	548	429	141	16	.	.	.	3312
1.00-1.49	.	.	432	300	507	210	60	.	.	.	1511
1.50-1.99	.	.	122	139	263	201	50	2	.	.	778
2.00-2.49	.	.	.	31	41	217	50	3	.	.	778
2.50-2.99	.	.	.	3	4	43	82	7	.	.	139
3.00-3.49	2	1	39	10	1	.	23
3.50-3.99	10	6	2	.	18
4.00-4.49	5	.	.	2
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	405	2171	1555	1288	1345	823	308	38	3	0	7436
MEAN HS (M) = 0.9	LARGEST HS (M) = 4.2			MEAN TP (SEC) = 4.6			NO. OF CASES =			7436	

STATION H06 43.75N 82.52W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	345	597	410	206	42	2	1	.	.	.	1603
0.50-0.99	.	683	678	610	269	57	1	.	.	.	2302
1.00-1.49	.	.	172	355	502	136	23	.	.	.	1158
1.50-1.99	.	.	14	154	294	172	33	.	.	.	668
2.00-2.49	.	.	.	7	110	162	47	1	2	.	328
2.50-2.99	11	84	52	2	2	2	154
3.00-3.49	14	44	3	1	.	61
3.50-3.99	1	35	4	3	.	43
4.00-4.49	1	6	2	.	14
4.50-4.99	2	.	6
5.00-5.49	3	.	3
5.50-5.99	2	1	.	1
6.00-6.49	1	1
6.50-6.99	0
7.00+	0
TOTAL	345	1280	1274	1332	1228	628	250	26	15	2	5983
MEAN HS (M) = 1.0	LARGEST HS (M) =		6.7		MEAN TP (SEC) =		4.8		NO. OF CASES =		5983

STATION H06 43.75N 82.52W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

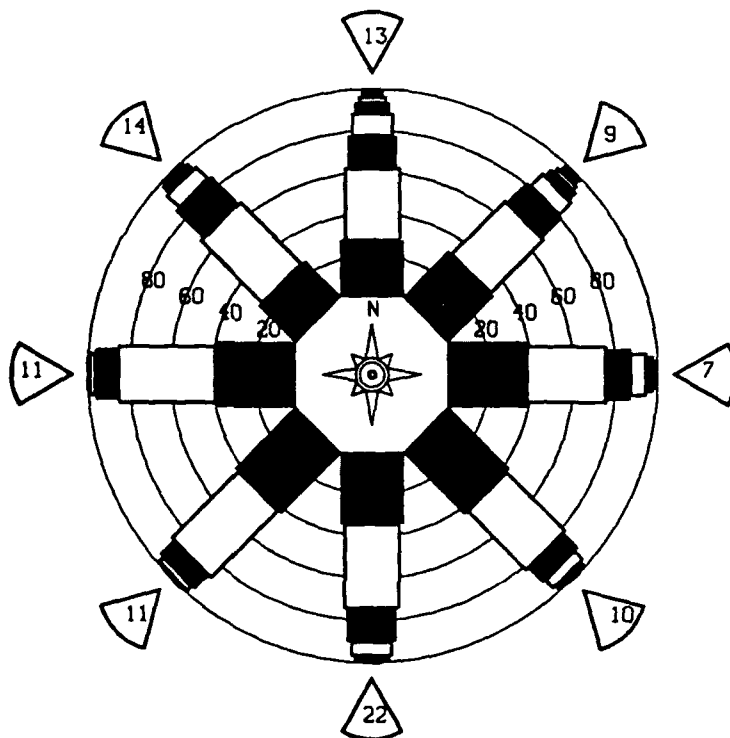
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	911	1435	590	326	86	10	1	.	.	.	3359
0.50-0.99	.	1669	1483	567	258	70	13	.	.	.	4060
1.00-1.49	.	.	537	450	260	88	20	.	.	.	1355
1.50-1.99	.	.	40	346	205	93	15	1	.	.	700
2.00-2.49	.	.	.	19	147	77	30	3	.	.	269
2.50-2.99	33	57	20	2	.	.	122
3.00-3.49	2	29	20	2	.	.	53
3.50-3.99	3	12	2	.	.	27
4.00-4.49	5	3	.	.	15
4.50-4.99	3	.	.	8
5.00-5.49	1	.	.	3
5.50-5.99	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	911	3104	2650	1708	991	427	163	18	0	0	93504

MEAN HS(M)= 0.8 LARGEST HS(M)= 7.1 MEAN TP(SEC)= 4.1 TOTAL CASES= 93504.

STATION 6
43.75N, 82.52 W
93504 CASES



OVER 3.0 M
2.5-2.9 M
2.0-2.4 M
1.5-1.9 M
1.0-1.4 M
0.5-0.9 M
0.0-0.4 M



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H06 (43.75N 82.52W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	1.0	0.7	0.8	0.8	0.8	0.6	0.5	0.5	0.6	0.8	0.8	0.7	0.7
1957	0.8	0.8	0.8	0.7	0.8	0.5	0.5	0.5	0.6	0.8	1.1	1.0	0.7
1958	1.0	1.3	0.7	0.9	0.9	0.9	0.6	0.8	1.0	1.1	1.2	1.0	1.0
1959	1.3	1.3	1.2	1.3	1.2	1.0	0.9	0.9	1.1	1.3	1.2	1.3	1.2
1960	1.2	1.5	1.1	1.2	1.0	0.7	0.6	0.6	0.6	0.7	1.3	1.3	1.0
1961	1.2	1.1	1.4	1.0	0.9	0.9	0.6	0.6	0.7	0.9	0.9	0.8	0.8
1962	1.0	1.0	0.7	1.0	0.8	0.7	0.6	0.6	0.8	0.6	0.9	1.1	0.8
1963	1.0	0.9	0.8	1.0	0.7	0.5	0.7	0.7	0.7	0.7	0.8	0.8	0.8
1964	1.1	1.3	1.1	1.2	1.0	0.7	0.8	0.7	0.7	0.8	1.0	0.8	0.8
1965	1.1	1.1	1.1	1.0	0.8	0.7	0.6	0.6	0.8	1.1	0.8	0.8	0.8
1966	1.0	0.9	1.1	1.1	0.9	0.9	0.5	0.5	0.8	1.1	0.8	0.8	0.8
1967	1.1	1.1	0.9	1.1	0.9	0.9	0.5	0.5	0.7	1.0	0.8	0.8	0.8
1968	1.1	1.1	1.1	1.1	1.1	1.1	0.9	0.9	0.7	1.0	1.1	1.1	1.0
1969	0.9	0.9	0.8	1.1	1.0	0.9	0.8	0.8	0.7	1.1	1.1	1.1	0.8
1970	0.7	1.1	1.1	1.1	1.0	0.9	0.8	0.8	0.6	0.8	0.8	0.8	0.8
1971	0.9	0.9	0.8	0.8	0.7	0.6	0.5	0.5	0.7	0.8	0.8	0.8	0.7
1972	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7
1973	1.0	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7
1974	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7
1975	0.8	0.8	0.7	0.8	1.0	0.4	0.4	0.3	0.5	0.8	0.8	0.8	0.7
1976	1.0	0.9	1.1	0.9	0.7	0.5	0.6	0.5	0.6	0.7	0.7	0.8	0.7
1977	0.8	0.8	0.8	0.8	0.7	0.6	0.5	0.4	0.5	0.7	0.8	0.8	0.7
1978	1.1	0.6	0.6	0.8	0.7	0.6	0.5	0.4	0.6	0.7	0.7	0.8	0.7
1979	0.9	1.0	0.7	0.9	0.7	0.6	0.6	0.5	0.5	0.7	0.7	0.8	0.7
1980	0.8	0.7	1.0	0.8	0.5	0.6	0.3	0.4	0.5	0.7	0.9	0.9	0.7
1981	0.7	1.0	1.0	0.7	1.0	0.5	0.5	0.4	0.6	0.7	0.8	0.8	0.7
1982	1.0	0.7	0.7	1.0	0.6	0.5	0.4	0.5	0.5	0.6	0.7	0.9	0.7
1983	0.8	0.7	1.1	0.9	0.7	0.4	0.5	0.4	0.5	0.6	1.3	0.8	0.7
1984	0.7	0.9	1.2	1.0	0.7	0.5	0.3	0.3	0.5	0.5	0.8	0.6	0.7
1985	0.9	0.6	1.0	0.8	0.6	0.5	0.6	0.4	0.5	0.6	0.9	0.7	0.7
1986	1.0	0.7	0.8	0.8	0.7	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7
1987	0.8	0.7	0.8	0.9	0.6	0.5	0.5	0.5	0.5	0.7	1.0	0.9	0.7
MEAN	1.0	0.9	1.0	0.9	0.7	0.6	0.5	0.5	0.6	0.8	0.9	0.9	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H06 (43.75N 82.52W)

YEAR	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	4.1	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1957	4.2	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1958	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1959	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1960	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1961	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1962	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1963	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1964	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1965	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1966	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1967	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1968	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1969	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1970	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1971	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1972	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1973	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1974	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1975	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1976	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1977	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1978	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1979	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1980	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1981	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1982	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1983	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1984	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1985	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1986	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	
1987	4.0	3.0	4.8	2.8	2.4	2.4	1.5	1.6	2.1	3.1	2.9	2.0	

32 YR. STATISTICS FOR WIS STATION H06

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.8
MEAN PEAK WAVE PERIOD	(SECONDS)	4.1
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	180.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.6
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.4
LARGEST WAVE HS	(METERS)	7.1
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	353.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		61031000

STATION H07 43.90N 82.52W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	312	825	420	158	32	3	.	.	.	.	1750
0.50-0.99	.	420	997	798	193	23	.	.	.	.	2431
1.00-1.49	.	.	121	406	458	49	9	.	.	.	1034
1.50-1.99	.	.	2	198	352	187	11	.	.	.	750
2.00-2.49	.	.	.	7	130	145	54	.	.	.	336
2.50-2.99	18	127	72	1	.	.	218
3.00-3.49	42	45	9	.	.	96
3.50-3.99	2	72	9	2	.	85
4.00-4.49	1	35	11	1	.	48
4.50-4.99	5	17	2	.	24
5.00-5.49	4	2	.	6
5.50-5.99	4	3	.	7
6.00-6.49	1	1	2
6.50-6.99	0
7.00+	0
TOTAL	312	1245	1540	1567	1184	569	303	55	12	1	6367.

MEAN HS(M) = 1.0 LARGEST HS(M)= 6.9 MEAN TP(SEC)= 4.8 NO. OF CASES= 6367.

STATION H07 43.90N 82.52W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	242	708	358	117	12	.	.	.	.	.	1438
0.50-0.99	.	290	812	614	115	3	.	.	.	.	1834
1.00-1.49	.	.	83	333	324	31	1	.	.	.	772
1.50-1.99	.	.	1	109	229	100	5	.	.	.	444
2.00-2.49	75	109	23	.	.	.	207
2.50-2.99	13	65	48	.	.	.	126
3.00-3.49	1	27	20	2	.	.	50
3.50-3.99	1	33	.	.	.	34
4.00-4.49	20	1	.	.	23
4.50-4.99	7	8	.	.	15
5.00-5.49	5	.	.	1
5.50-5.99	1	.	.	1
6.00-6.49	1	.	.	0
6.50-6.99	0
7.00+	0
TOTAL	242	999	1254	1173	769	336	157	18	0	0	4641.

MEAN HS(M) = 0.9 LARGEST HS(M)= 6.3 MEAN TP(SEC)= 4.6 NO. OF CASES= 4641.

STATION H07 43.90N 82.52W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	276	706	343	119	18	.	.	.	.	.	1462
0.50-0.99	.	361	833	567	88	6	.	.	.	.	1855
1.00-1.49	.	.	111	331	220	22	.	.	.	.	684
1.50-1.99	.	.	.	173	204	54	1	.	.	.	432
2.00-2.49	.	.	.	1	172	94	9	.	.	.	276
2.50-2.99	27	120	21	.	.	.	168
3.00-3.49	75	42	.	.	.	117
3.50-3.99	3	72	.	.	.	75
4.00-4.49	48	.	.	.	48
4.50-4.99	19	11	.	.	30
5.00-5.49	12	.	.	12
5.50-5.99	11	.	.	11
6.00-6.49	3	3	.	6
6.50-6.99	1	.	.	1
7.00+	0
TOTAL	276	1067	1287	1191	729	374	212	38	3	0	4857.

MEAN HS(M) = 1.0 LARGEST HS(M)= 6.5 MEAN TP(SEC)= 4.6 NO. OF CASES= 4857.

STATION H07 43.90N 82.52W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	238	550	274	62	16	.	.	.	.	.	1140
0.50-0.99	.	301	664	348	70	8	.	.	.	.	1391
1.00-1.49	.	.	98	273	87	13	.	.	.	.	471
1.50-1.99	.	.	1	148	90	29	.	.	.	.	268
2.00-2.49	.	.	.	2	93	18	3	.	.	.	116
2.50-2.99	26	40	3	.	.	.	69
3.00-3.49	22	6	.	.	.	28
3.50-3.99	4	16	1	.	.	21
4.00-4.49	8	.	.	.	8
4.50-4.99	5	.	.	.	5
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	238	851	1037	833	382	134	41	1	0	0	3302.

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.8 MEAN TP(SEC)= 4.2 NO. OF CASES= 3302.

STATION H07 43.90N 82.52W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	355	722	311	102	13	.	.	.	.	.	1503
0.50-0.99	.	418	714	243	59	4	.	.	.	.	1438
1.00-1.49	.	.	118	259	33	6	1	.	.	.	417
1.50-1.99	.	.	.	201	63	10	4	.	.	.	278
2.00-2.49	.	.	.	3	110	4	5	.	.	.	122
2.50-2.99	42	12	3	.	.	.	57
3.00-3.49	20	1	1	.	.	22
3.50-3.99	9	1	.	.	.	10
4.00-4.49	2	.	.	.	2
4.50-4.99	2	.	.	.	2
5.00-5.49	1	.	.	.	1
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	355	1140	1143	808	320	65	20	1	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 5.2 MEAN TP(SEC)= 4.0 NO. OF CASES= 3614.

STATION H07 43.90N 82.52W AZIMUTH(DEGREES) = 112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	343	629	231	96	9	1	.	.	.	.	1309
0.50-0.99	.	385	746	183	36	5	1	.	.	.	1356
1.00-1.49	.	.	83	272	19	6	.	.	.	.	380
1.50-1.99	.	.	.	140	121	3	2	.	.	.	266
2.00-2.49	131	8	1	.	.	.	140
2.50-2.99	12	33	.	.	.	.	45
3.00-3.49	20	.	1	.	.	21
3.50-3.99	2	.	.	.	2
4.00-4.49	1	.	.	.	0
4.50-4.99	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	343	1014	1060	691	328	76	7	1	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.8 MEAN TP(SEC)= 4.0 NO. OF CASES= 3301.

STATION H07 43.90N 82.52W AZIMUTH(DEGREES) = 135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	527	895	347	122	13	.	.	.	.	.	1904
0.50-0.99	.	479	1012	240	27	7	.	.	.	.	1765
1.00-1.49	.	.	84	276	29	3	.	.	.	.	392
1.50-1.99	.	.	1	95	121	1	.	.	.	.	218
2.00-2.49	.	.	.	1	53	11	1	.	.	.	66
2.50-2.99	4	12	.	.	.	.	16
3.00-3.49	11	.	.	.	.	11
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	527	1374	1444	734	247	45	1	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.4 MEAN TP(SEC)= 3.8 NO. OF CASES= 4100.

STATION H07 43.90N 82.52W AZIMUTH(DEGREES) = 157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	739	1976	548	177	21	2	.	.	.	.	3463
0.50-0.99	.	832	1864	579	60	2	.	.	.	.	3341
1.00-1.49	.	.	167	642	133	6	1	1	.	.	950
1.50-1.99	.	.	.	279	189	9	1	.	.	.	478
2.00-2.49	.	.	.	1	121	7	.	.	.	.	129
2.50-2.99	18	26	3	.	.	.	47
3.00-3.49	1	20	4	.	.	.	25
3.50-3.99	5	4	.	.	.	9
4.00-4.49	0
4.50-4.99	1	.	.	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	739	2808	2579	1678	543	81	14	1	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 4.9 MEAN TP(SEC)= 3.9 NO. OF CASES= 7906.

STATION H07 43.90N 82.52W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1128	2412	510	209	42	5					4306
0.50-0.99		1950	3134	443	49	12	2				5590
1.00-1.49			624	1430	44	10	4				2112
1.50-1.99			18	1030	356	1	2				1407
2.00-2.49				8	501	1	1				511
2.50-2.99					133	66					199
3.00-3.49					1	52					53
3.50-3.99						16	2				18
4.00-4.49							3				3
4.50-4.99											0
5.00-5.49							1				1
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	1128	4362	4286	3120	1126	163	15	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 5.0 MEAN TP(SEC)= 4.0 NO. OF CASES= 13291.

STATION H07 43.90N 82.52W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	838	1135	358	194	51	5					2581
0.50-0.99		2014	1048	111	41	10	4				3228
1.00-1.49			638	124	5	2	2				771
1.50-1.99			47	295	33						375
2.00-2.49				27	64	2					93
2.50-2.99				1	26	7					34
3.00-3.49					2	11					13
3.50-3.99					1	2					3
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	838	3149	2091	752	223	39	6	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.9 MEAN TP(SEC)= 3.5 NO. OF CASES= 6647.

STATION H07 43.90N 82.52W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	734	865	427	278	56	7					2367
0.50-0.99		1485	657	164	75	25	3				2419
1.00-1.49			488	10	8	4	1	1			512
1.50-1.99			14	180			1				195
2.00-2.49				35	8						43
2.50-2.99					13		1				14
3.00-3.49					5						5
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	734	2360	1586	667	165	36	6	1	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.3 MEAN TP(SEC)= 3.5 NO. OF CASES= 5206.

STATION H07 43.90N 82.52W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	480	647	348	219	82	7	4				1787
0.50-0.99		1021	315	219	149	44	8				1756
1.00-1.49			252	6	43	18	5				324
1.50-1.99			31	75	1	3					110
2.00-2.49				21	2						23
2.50-2.99					4						4
3.00-3.49								1			1
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	480	1668	946	540	280	70	20	1	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.3 MEAN TP(SEC)= 3.7 NO. OF CASES= 3754.

STATION H07 43.90N 82.52W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	510	802	401	256	77	19	.	.	.	.	2065
0.50-0.99	.	1137	295	418	312	106	26	.	.	.	2294
1.00-1.49	.	.	269	43	177	79	27	1	.	.	596
1.50-1.99	.	.	83	29	14	64	11	2	.	.	203
2.00-2.49	.	.	.	26	.	10	6	.	.	.	42
2.50-2.99	3	.	.	.	3
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	510	1939	1048	772	580	278	73	3	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.9 MEAN TP(SEC)= 4.0 NO. OF CASES= 4877.

STATION H07 43.90N 82.52W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	404	771	459	243	65	3	.	.	.	.	1945
0.50-0.99	.	1483	460	725	473	102	21	.	.	.	3264
1.00-1.49	.	.	291	113	460	143	35	2	.	.	1044
1.50-1.99	.	.	83	37	73	149	28	.	.	.	370
2.00-2.49	.	.	.	14	32	45	29	.	.	.	120
2.50-2.99	.	.	.	1	6	11	10	.	.	.	28
3.00-3.49	1	2	.	1	.	.	4
3.50-3.99	0
4.00-4.49	0
4.50-4.99	2	.	.	.	2
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	404	2254	1293	1133	1110	455	125	3	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 4.7 MEAN TP(SEC)= 4.3 NO. OF CASES= 6353.

STATION H07 43.90N 82.52W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	258	603	533	228	57	6	.	.	.	.	1685
0.50-0.99	.	881	1093	983	428	77	6	.	.	.	3468
1.00-1.49	.	.	357	588	705	173	45	2	.	.	1870
1.50-1.99	.	.	24	495	479	190	25	3	.	.	1216
2.00-2.49	.	.	.	38	422	126	35	3	.	.	624
2.50-2.99	.	.	.	1	106	201	32	2	.	.	342
3.00-3.49	5	121	26	1	.	.	153
3.50-3.99	13	47	7	.	.	67
4.00-4.49	1	22	.	.	.	23
4.50-4.99	7	1	2	.	10
5.00-5.49	1	3	1	.	5
5.50-5.99	2	.	.	2
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	258	1484	2007	2333	2202	908	246	24	3	0	

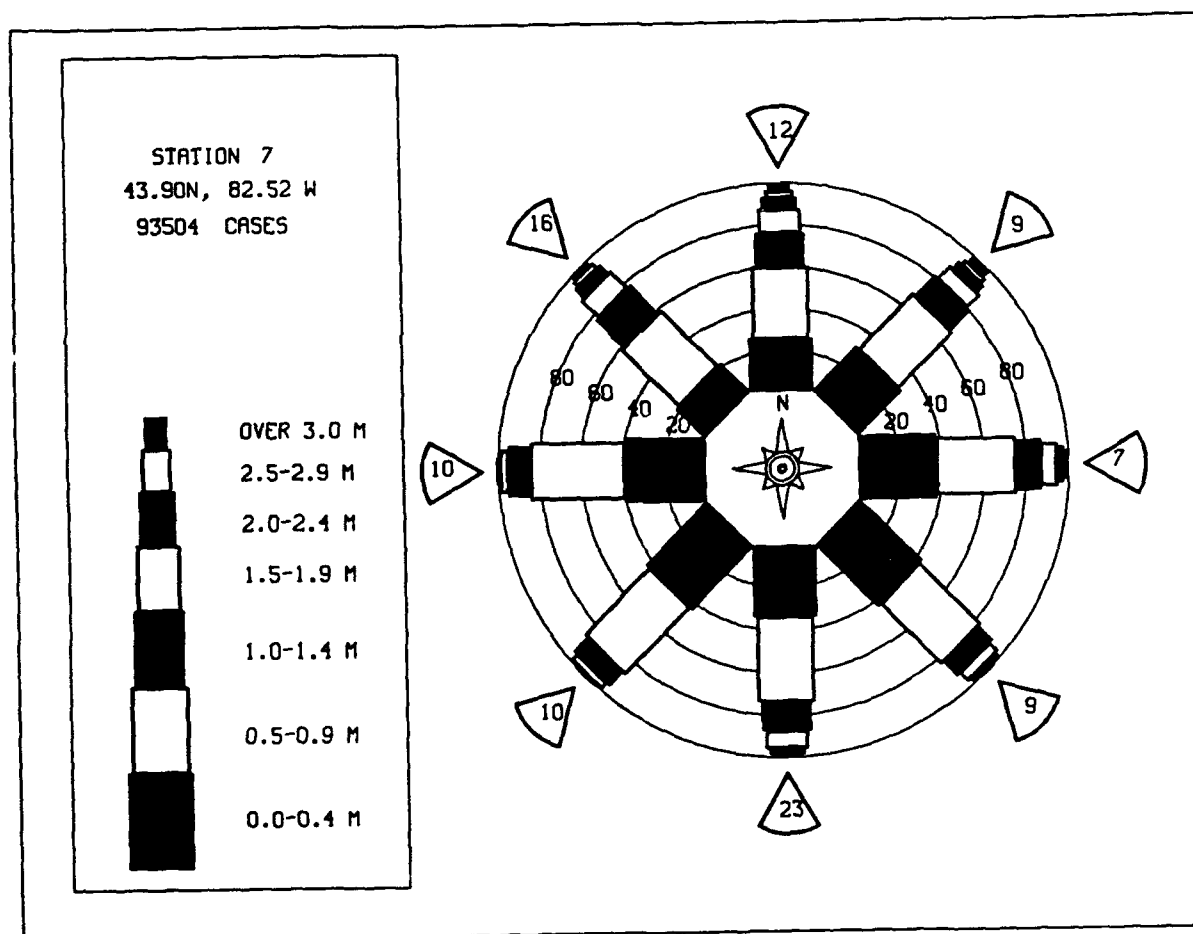
MEAN HS(M) = 1.1 LARGEST HS(M)= 5.6 MEAN TP(SEC)= 4.9 NO. OF CASES= 8868.

STATION H07 43.90N 82.52W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	245	546	339	161	34	2	.	.	.	.	1327
0.50-0.99	.	393	950	673	193	37	2	.	.	.	2248
1.00-1.49	.	.	151	458	466	103	13	.	.	.	1191
1.50-1.99	.	.	10	303	473	175	20	1	.	.	882
2.00-2.49	.	.	.	5	298	165	44	1	.	.	513
2.50-2.99	41	185	45	.	.	.	271
3.00-3.49	3	88	53	4	1	.	149
3.50-3.99	10	72	7	1	.	90
4.00-4.49	27	5	1	.	33
4.50-4.99	9	13	1	.	23
5.00-5.49	1	5	2	.	8
5.50-5.99	2	.	2
6.00-6.49	3	.	3
6.50-6.99	1	1	2
7.00+	0
TOTAL	245	939	1450	1600	1508	765	286	36	12	1	

MEAN HS(M) = 1.2 LARGEST HS(M)= 6.7 MEAN TP(SEC)= 5.0 NO. OF CASES= 6420.

STATION H07 43.90N 82.52W FOR ALL DIRECTIONS										
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-11.0+ LONGER
0.00-0.49	763	1480	621	274	60	6	7	.	.	3204
0.50-0.99	.	1386	1560	731	237	48	14	.	.	3969
1.00-1.49	.	.	394	537	322	66	11	.	.	1353
1.50-1.99	.	.	31	379	280	97	21	.	.	798
2.00-2.49	.	.	.	19	221	75	24	.	.	336
2.50-2.99	49	91	32	.	.	164
3.00-3.49	2	51	20	.	.	75
3.50-3.99	6	16	.	.	40
4.00-4.49	6	.	.	17
4.50-4.99	11
5.00-5.49	3
5.50-5.99	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	763	2866	2606	1960	1171	440	151	14	0	93504
MEAN HS(M)= 0.8 LARGEST HS(M)= 6.9 MEAN TP(SEC)= 4.2 TOTAL CASES= 93504.										



MEAN HS(METERS) BY MONTH AND YEAR

WIS STATION H07 (43.90N 82.52W)

MONTH

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
YEAR													
1956	1.0	0.8	0.8	0.8	0.8	0.7	0.5	0.5	0.6	0.9	0.8	0.7	0.8
1957	0.0	0.8	0.8	0.8	0.8	0.6	0.5	0.5	0.6	0.9	0.8	0.7	0.8
1958	1.1	1.1	1.1	1.1	1.1	1.0	0.7	0.7	0.7	1.1	1.1	1.1	1.0
1959	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1960	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1961	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1962	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1963	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1964	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1965	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1966	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1967	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1968	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1969	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1970	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1971	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1972	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1973	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1974	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1975	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1976	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1977	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1978	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1979	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1980	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1981	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1982	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1983	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1984	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1985	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1986	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1987	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
MEAN	1.0	1.0	1.0	1.0	0.8	0.6	0.6	0.5	0.7	0.8	1.0	1.0	

LARGEST HS(METERS) BY MONTH AND YEAR

WIS STATION H07 (43.90N 82.52W)

MONTH

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
YEAR												
1956	4.1	3.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1957	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1958	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1959	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1960	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1961	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1962	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1963	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1964	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1965	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1966	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1967	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1968	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1969	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1970	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1971	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1972	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1973	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1974	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1975	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1976	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1977	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1978	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1979	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1980	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1981	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1982	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1983	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1984	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1985	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1986	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1987	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3

32 YR. STATISTICS FOR WIS STATION H07

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	0.8
MEAN PEAK WAVE PERIOD (SECONDS)	4.2
MOST FREQUENT 22.5 DEGREE (CENTEP) DIRECTION BAND . . (DEGREES)	180.0
STANDARD DEVIATION OF WAVE HS (METERS)	0.7
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.4
LARGEST WAVE HS (METERS)	6.9
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	10.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	358.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	61030921

STATION H08 44.05N 82.52W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

PERCENT OCCURRENCE (X1000) OF HEIGHT											TOTAL
HEIGHT (METRES)	PEAK PERIOD (SECONDS)										
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	231	644	272	104	14						1265
0.50-0.99		396	926	748	133	12					2215
1.00-1.49			93	466	385	31	2				977
1.50-1.99			1	180	352	139	2				681
2.00-2.49				4	124	158	3				322
2.50-2.99					18	110	69				197
3.00-3.49					1	47	43				94
3.50-3.99						1	43				81
4.00-4.49							33		1		40
4.50-4.99							6		1		18
5.00-5.49								12	2		8
5.50-5.99								2	1		3
6.00-6.49									1		0
6.50-6.99											1
7.00+											0
TOTAL	231	1040	1292	1502	1027	499	274	31	6	0	
MEAN HS(M) = 1.1	LARGEST HS(M)=			6.7	MEAN TP(SEC)=			4.8	NO. OF CASES=		5533.

STATION H08 44.05N 82.52W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	158	656	275	74	7	.	.	.	.	.	1170
0.50-0.99	.	316	882	595	75	2	.	.	.	.	1870
1.00-1.49	.	.	84	363	264	17	1	.	.	.	729
1.50-1.99	.	.	.	117	227	79	3	.	.	.	426
2.00-2.49	.	.	.	2	70	111	23	.	.	.	206
2.50-2.99	9	73	41	.	.	.	123
3.00-3.49	1	31	21	1	.	.	54
3.50-3.99	32	.	.	.	32
4.00-4.49	23	.	.	.	23
4.50-4.99	4	.	.	.	6
5.00-5.49	4	.	.	4
5.50-5.99	1	.	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	158	972	1241	1151	653	313	148	10	1	0	4359.
MEAN HS(M) = 1.0	LARGEST HS(M)=		5.5	MEAN TP(SEC)=		4.6	NO. OF CASES=		4359.		

STATION H08 44.05N 82.52W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	267	819	297	73	4						1460
0.50-0.99		359	891	570	78	6					1904
1.00-1.49			132	346	206	8					682
1.50-1.99			1	176	237	52					466
2.00-2.49				1	176	95	6				278
2.50-2.99					29	149	20				198
3.00-3.49						85	35				120
3.50-3.99						2	79				81
4.00-4.49							50				50
4.50-4.99							23	7			30
5.00-5.49							2	16			18
5.50-5.99								5			5
6.00-6.49								1	2		3
6.50-6.99											0
7.00+											
TOTAL	267	1178	1321	1166	730	397	215	38	2	0	4982
MEAN HS (M) = 1.1	LARGEST HS (M) =		6.5		MEAN TP (SEC) =		4.6		NO. OF CASES =		4982

STATION H08 44.05N 82.52W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	226	651	247	64	9	1	.	.	.	.	1198
0.50-0.99	.	331	711	349	44	2	.	.	.	.	1457
1.00-1.49	.	.	93	295	94	1	.	.	.	.	483
1.50-1.99	.	.	.	160	91	16	2	.	.	.	269
2.00-2.49	.	.	.	7	113	18	4	.	.	.	142
2.50-2.99	23	45	4	.	.	.	72
3.00-3.49	31	6	.	.	.	37
3.50-3.99	19	1	.	.	26
4.00-4.49	10	.	.	.	10
4.50-4.99	3	.	.	.	3
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	226	982	1051	875	374	120	48	1	0	0	3449.
MEAN HS (M) = 0.8	LARGEST HS (M) =		4.8		MEAN TP (SEC) =		4.2		NO. OF CASES =		3449.

STATION H08 44.05N 82.52W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	343	795	276	80	5						1499
0.50-0.99		420	707	252	42	6					1427
1.00-1.49			141	278	32	7	1				459
1.50-1.99				216	77	8	1				302
2.00-2.49				3	120	9	3				135
2.50-2.99					42	16	3				61
3.00-3.49						18					18
3.50-3.99						11	1	2			14
4.00-4.49							2				2
4.50-4.99							1	1			2
5.00-5.49							1				1
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	343	1215	1124	829	318	75	13	3	0	0	3676

MEAN HS(M) = 0.8 LARGEST HS(M)= 5.2 MEAN TP(SEC)= 4.0 NO. OF CASES= 3676.

STATION H08 44.05N 82.52W AZIMUTH(DEGREES) = 112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	311	628	225	68	4	1					1237
0.50-0.99		374	737	180	33	2	2				1328
1.00-1.49			84	250	18	6					358
1.50-1.99				129	112						241
2.00-2.49				1	119	11	1				132
2.50-2.99					16	25					41
3.00-3.49					1	11					12
3.50-3.99						1	2				3
4.00-4.49											0
4.50-4.99							1				1
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	311	1002	1046	628	303	57	6	0	0	0	3145

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.6 MEAN TP(SEC)= 3.9 NO. OF CASES= 3145.

STATION H08 44.05N 82.52W AZIMUTH(DEGREES) = 135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	466	876	290	91	6						1729
0.50-0.99		485	930	217	27	1					1660
1.00-1.49			87	263	39	3	1				383
1.50-1.99			1	97	99	2					199
2.00-2.49					48	7					55
2.50-2.99					5	11					16
3.00-3.49						9					9
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	466	1361	1308	668	224	33	1	0	0	0	3807

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.4 MEAN TP(SEC)= 3.7 NO. OF CASES= 3807.

STATION H08 44.05N 82.52W AZIMUTH(DEGREES) = 157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	565	1887	442	116	17	1					2828
0.50-0.99		746	1749	616	68	6	1				3186
1.00-1.49			146	319	171	11		1			848
1.50-1.99				222	193	10					428
2.00-2.49					113	17					135
2.50-2.99					16	26					44
3.00-3.49						19					25
3.50-3.99						8					13
4.00-4.49											2
4.50-4.99											1
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	565	2433	2337	1473	582	98	21	1	0	0	7034

MEAN HS(M) = 0.7 LARGEST HS(M)= 4.7 MEAN TP(SEC)= 3.9 NO. OF CASES= 7034.

STATION H08 44.05N 82.52W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	805	2111	416	113	12						3457
0.50-0.99		1529	2734	520	42	8					4833
1.00-1.49			454	1214	102	12	3				1785
1.50-1.99			12	813	563	3	1				1392
2.00-2.49				9	578	7	1				595
2.50-2.99					112	142					254
3.00-3.49					1	106	2				109
3.50-3.99						21	10				31
4.00-4.49							8				8
4.50-4.99							3				3
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	805	3640	3616	2669	1410	299	28	0	0	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.8 MEAN TP(SEC)= 4.1 NO. OF CASES= 11672.

STATION H08 44.05N 82.52W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	629	1254	229	135	28						2275
0.50-0.99		1760	1078	108	42	11	2				3001
1.00-1.49			621	244	20						885
1.50-1.99			41	294	98		1				434
2.00-2.49				14	122	5	1				142
2.50-2.99				3	13	24	1				41
3.00-3.49					2	17	1				20
3.50-3.99						5	5				10
4.00-4.49							2				2
4.50-4.99											2
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	629	3014	1969	798	325	62	15	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 4.7 MEAN TP(SEC)= 3.6 NO. OF CASES= 6383.

STATION H08 44.05N 82.52W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	487	1165	258	156	27	2					2095
0.50-0.99		1636	822	158	60	19	1	1			2687
1.00-1.49			660	59	3	6	1				729
1.50-1.99			42	235	1	1	1				280
2.00-2.49				43	7						50
2.50-2.99				2	18	1					21
3.00-3.49					8						8
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	487	2801	1782	653	124	29	3	1	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.4 MEAN TP(SEC)= 3.5 NO. OF CASES= 5509.

STATION H08 44.05N 82.52W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	335	986	181	139	21	2					1664
0.50-0.99		1224	956	181	91	23	4				2479
1.00-1.49			536	225	20	6	4				791
1.50-1.99			10	267	30						327
2.00-2.49				26	89	2					117
2.50-2.99					26	18					44
3.00-3.49						14	1				15
3.50-3.99					1	3	2				6
4.00-4.49							2				2
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	335	2210	1683	838	298	68	17	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.7 MEAN TP(SEC)= 3.8 NO. OF CASES= 5108.

STATION H08 44.05N 82.52W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	306	1054	209	117	26	2	.	.	.	.	1714
0.50-0.99	.	850	1723	481	168	57	8	.	.	.	3287
1.00-1.49	.	.	445	832	93	37	11	1	.	.	1419
1.50-1.99	.	.	2	592	403	5	5	.	.	.	1007
2.00-2.49	.	.	.	13	497	16	1	.	.	.	527
2.50-2.99	96	121	.	.	.	.	217
3.00-3.49	86	5	.	.	.	91
3.50-3.99	19	20	.	.	.	38
4.00-4.49	1	16	1	.	.	18
4.50-4.99	2	.	.	.	2
5.00-5.49	1	.	.	.	1
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	306	1904	2379	2035	1283	344	69	2	0	0	7796.
MEAN HS(M) = 1.0	LARGEST HS(M)= 5.0		MEAN TP(SEC)= 4.4		NO. OF CASES= 7796.						

STATION H08 44.05N 82.52W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	235	874	187	99	24	1					1420
0.50-0.99	.	642	1646	556	175	50	6	.	.	.	3075
1.00-1.49	.	.	283	844	179	96	34	.	.	.	1436
1.50-1.99	.	.	.	439	484	25	19	3	.	.	973
2.00-2.49	.	.	3	2	466	44	4	1	.	.	517
2.50-2.99	93	201	2	1	.	.	297
3.00-3.49	103	3	.	.	.	106
3.50-3.99	10	24	.	.	.	34
4.00-4.49	11	.	.	.	11
4.50-4.99	6	.	.	.	6
5.00-5.49	0
5.50-5.99	1	.	.	1
6.00-6.49	1	.	1
6.50-6.99	0
7.00+	0
TOTAL	235	1516	2116	1940	1421	530	109	6	1	0	
MEAN HS(M) = 1.1	LARGEST HS(M) = 6.9		MEAN TP (SEC) = 4.6		NO. OF CASES = 7360.						

STATION H08 44.05N 82.52W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	157	635	199	99	26	1	.	.	.	1117	
0.50-0.99	.	514	1511	648	236	42	3	.	.	2954	
1.00-1.49	.	.	223	948	343	137	27	.	.	1678	
1.50-1.99	.	.	2	483	640	75	40	1	.	1241	
2.00-2.49	.	.	.	5	614	109	17	.	.	745	
2.50-2.99	84	332	24	4	.	444	
3.00-3.49	221	24	3	1	249	
3.50-3.99	10	80	1	.	91	
4.00-4.49	41	1	.	42	
4.50-4.99	12	4	.	16	
5.00-5.49	2	5	1	6	
5.50-5.99	4	2	0	
6.00-6.49	0	
6.50-6.99	0	
7.00+	0	
TOTAL	157	1149	1935	2183	1943	927	270	23	4	0	
MEAN HS(M) = 1.3 LARGEST HS(M)= 5.7 MEAN TP(SEC)= 5.0 NO. OF CASES= 8051.											

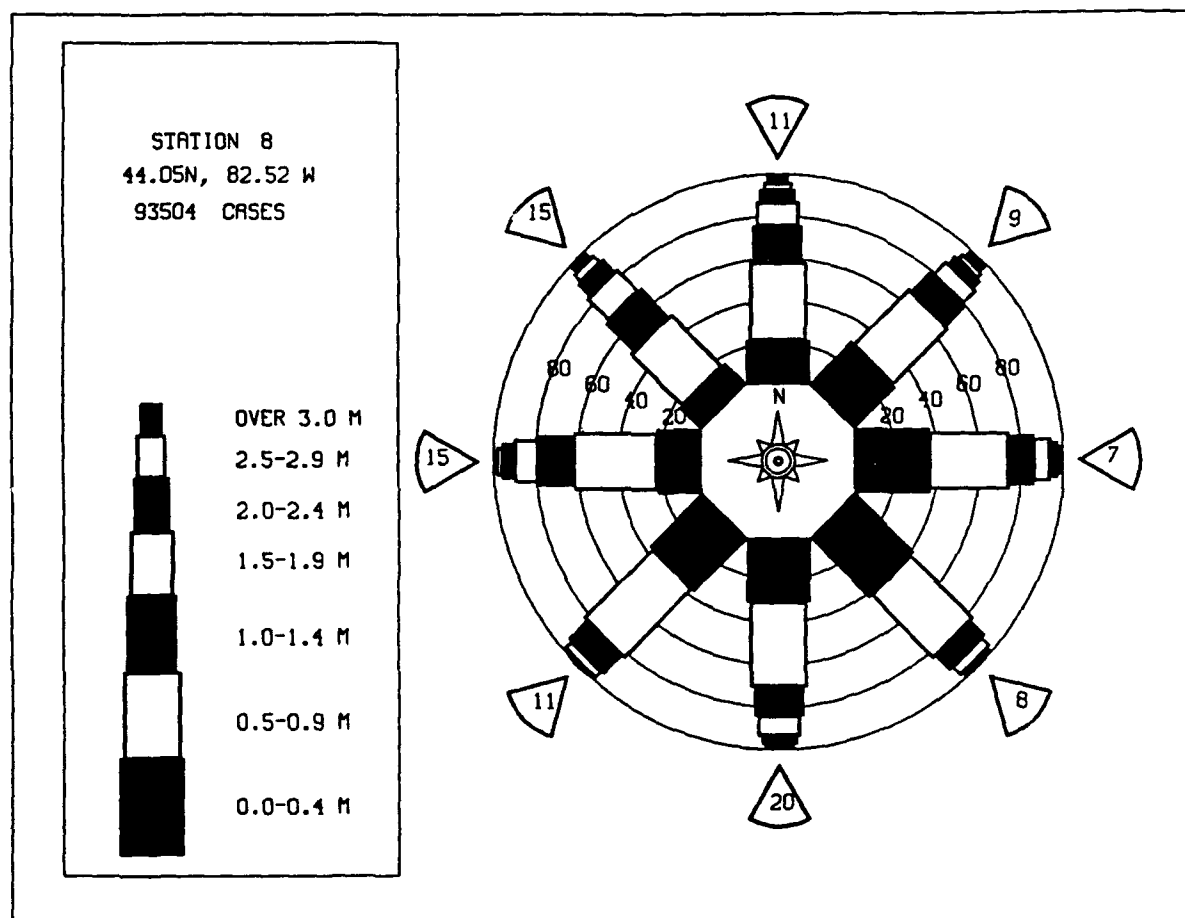
STATION H08 44.05N 82.52W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	160	475	201	96	12	1	.	.	.	.	945
0.50-0.99	.	352	852	582	155	20	.	.	.	.	1961
1.00-1.49	.	.	106	578	397	66	8	.	.	.	1155
1.50-1.99	.	.	1	476	145	19	.	.	.	.	873
2.00-2.49	.	.	.	232	476	145	19	.	.	.	873
2.50-2.99	.	.	.	2	254	195	35	.	.	.	486
3.00-3.49	24	181	50	1	.	.	256
3.50-3.99	78	65	3	.	.	146
4.00-4.49	7	78	8	.	.	93
4.50-4.99	26	6	2	.	34
5.00-5.49	12	10	1	.	23
5.50-5.99	8	2	.	10
6.00-6.49	2	1	.	3
6.50-6.99	5	.	5
7.00+	1	1
TOTAL	160	827	1160	1490	1318	693	293	38	11	1	0
MEAN BS(M) = 1.2	LARGEST BS(M) = 6.6		MEAN TP(SEC) = 5.1		NO. OF CASES = 5620.						

STATION H08 44.05N 82.52W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	568	1531	421	163	25	1	2	.	.	.	2709
0.50-0.99	.	1194	1886	676	147	27	9	.	.	.	3932
1.00-1.49	.	.	419	773	237	45	10	.	.	.	1483
1.50-1.99	.	.	11	463	411	56	13	.	.	.	953
2.00-2.49	.	.	.	13	352	81	21	.	.	.	459
2.50-2.99	63	148	21	.	.	.	232
3.00-3.49	1	88	21	1	.	.	111
3.50-3.99	10	43	1	.	.	54
4.00-4.49	23	4	.	.	24
4.50-4.99	8	.	.	.	12
5.00-5.49	4	.	.	4
5.50-5.99	1	.	.	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	568	2725	2737	2090	1236	456	150	12	0	0	93504

MEAN HS(M)= 0.9 LARGEST HS(M)= 6.9 MEAN TP(SEC)= 4.3 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H08 (44.05N 82.52W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	1.1	0.8	1.0	0.9	0.9	0.7	0.6	0.5	0.7	1.0	0.9	0.8	0.8
1957	0.9	0.9	0.9	0.9	0.9	0.7	0.6	0.6	0.7	0.9	1.1	1.2	0.8
1958	1.1	1.4	0.8	1.1	1.1	1.1	0.7	1.0	1.3	1.3	1.5	1.3	1.1
1959	1.6	1.5	1.4	1.5	1.5	1.2	1.2	1.0	1.3	1.5	1.5	1.7	1.4
1960	1.6	1.8	1.4	1.1	1.1	0.8	0.7	0.6	0.7	0.9	1.6	1.7	1.2
1961	1.6	1.3	1.5	1.2	1.1	1.2	0.7	0.7	0.8	1.1	1.1	1.1	1.1
1962	1.2	1.1	0.8	1.1	0.9	0.7	0.8	0.7	1.0	0.8	1.0	1.3	1.0
1963	1.2	1.2	1.1	1.3	0.9	0.7	0.8	0.8	0.8	0.8	1.2	1.1	1.0
1964	1.4	1.1	1.1	1.4	1.2	0.9	0.7	0.8	0.9	1.1	1.1	1.1	1.1
1965	1.4	1.4	1.1	1.0	0.9	0.9	0.7	0.8	0.9	1.1	1.2	1.1	1.1
1966	1.3	1.1	1.1	1.1	1.1	0.7	0.7	0.7	1.0	1.3	1.1	1.1	1.1
1967	1.3	1.1	1.1	1.1	1.1	0.6	0.7	0.7	0.8	1.1	1.1	1.1	1.1
1968	1.3	1.1	1.1	1.1	1.1	0.8	0.7	0.7	0.8	1.1	1.1	1.1	1.1
1969	1.3	1.1	1.1	1.1	1.1	0.8	0.7	0.7	0.8	1.1	1.1	1.1	1.1
1970	1.3	1.1	1.1	1.1	1.1	0.8	0.7	0.7	0.8	1.1	1.1	1.1	1.1
1971	1.3	1.1	1.1	1.1	1.1	0.8	0.7	0.7	0.8	1.1	1.1	1.1	1.1
1972	1.3	1.1	1.1	1.1	1.1	0.8	0.7	0.7	0.8	1.1	1.1	1.1	1.1
1973	1.3	1.1	1.1	1.1	1.1	0.8	0.7	0.7	0.8	1.1	1.1	1.1	1.1
1974	1.3	1.1	1.1	1.1	1.1	0.8	0.7	0.7	0.8	1.1	1.1	1.1	1.1
1975	1.3	1.1	1.1	1.1	1.1	0.8	0.7	0.7	0.8	1.1	1.1	1.1	1.1
1976	1.3	1.1	1.1	1.1	1.1	0.8	0.7	0.7	0.8	1.1	1.1	1.1	1.1
1977	1.3	1.1	1.1	1.1	1.1	0.8	0.7	0.7	0.8	1.1	1.1	1.1	1.1
1978	1.3	1.1	1.1	1.1	1.1	0.8	0.7	0.7	0.8	1.1	1.1	1.1	1.1
1979	1.3	1.1	1.1	1.1	1.1	0.8	0.7	0.7	0.8	1.1	1.1	1.1	1.1
1980	0.9	0.8	1.2	0.9	0.6	0.7	0.4	0.4	0.6	0.9	1.1	1.1	0.8
1981	0.8	0.8	1.1	1.1	0.8	0.6	0.5	0.4	0.7	0.8	0.8	0.9	0.8
1982	1.2	0.8	0.9	1.2	0.5	0.5	0.5	0.6	0.6	0.7	0.8	1.0	0.8
1983	0.9	0.8	1.1	1.0	0.8	0.5	0.5	0.4	0.6	0.7	1.4	0.9	0.8
1984	0.8	1.0	1.3	1.0	0.9	0.5	0.4	0.3	0.6	0.5	0.9	0.8	0.8
1985	1.0	0.8	1.2	0.9	0.7	0.7	0.4	0.6	0.7	0.7	1.0	0.9	0.8
1986	1.1	0.8	1.1	1.0	0.8	0.7	0.5	0.5	0.6	0.6	0.8	0.8	0.8
1987	1.0	0.8	0.9	1.0	0.7	0.6	0.6	0.6	0.6	0.8	1.1	1.1	0.8
MEAN	1.2	1.1	1.1	1.1	0.9	0.7	0.6	0.6	0.8	0.9	1.1	1.1	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H08 (44.05N 82.52W)

YEAR	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	4.0	3.7	5.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1957	3.2	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1958	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1959	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1960	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1961	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1962	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1963	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1964	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1965	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1966	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1967	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1968	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1969	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1970	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1971	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1972	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1973	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1974	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1975	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1976	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1977	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1978	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1979	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1980	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1981	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1982	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1983	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1984	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1985	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1986	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	
1987	4.0	3.5	3.1	3.2	3.4	3.4	1.9	1.7	2.5	3.3	2.7	2.3	

32 YR. STATISTICS FOR WIS STATION H08

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.9
MEAN PEAK WAVE PERIOD	(SECONDS)	4.3
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	180.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.7
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.4
LARGEST WAVE HS	(METERS)	6.9
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	10.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	296.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		79040615

STATION H09 44.05N 82.71W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	212	622	201	78	13	1					1127
0.50-0.99		398	967	567	90	11	1				2034
1.00-1.49			128	489	345	20					982
1.50-1.99			1	181	356	139	3				680
2.00-2.49				3	168	157	36				364
2.50-2.99					29	112	89				230
3.00-3.49						51	66				121
3.50-3.99						5	91				102
4.00-4.49							32				41
4.50-4.99							7				23
5.00-5.49							1				20
5.50-5.99								17	2		6
6.00-6.49								3	3		2
6.50-6.99									2		2
7.00+									1	1	2
TOTAL	212	1020	1297	1318	1001	496	328	59	9	1	0
MEAN HS(M) = 1.2	LARGEST HS(M)=		6.8	MEAN TP(SEC)=		4.9	NO. OF CASES=		5386.		

STATION H09 44.05N 82.71W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	179	527	201	66	7						980
0.50-0.99		355	838	539	47	3	.	.	.	.	1782
1.00-1.49			95	325	274	8	1	.	.	.	703
1.50-1.99			2	121	217	70	1	.	.	.	411
2.00-2.49				1	86	96	21	.	.	.	204
2.50-2.99					8	78	42	.	.	.	128
3.00-3.49					1	26	31	3	.	.	61
3.50-3.99						2	44	1	.	.	47
4.00-4.49							21	2	.	.	23
4.50-4.99							6	9	.	.	15
5.00-5.49								6	.	.	6
5.50-5.99								1	1	.	2
6.00-6.49									.	.	0
6.50-6.99									.	.	0
7.00+									.	.	0
TOTAL	179	882	1136	1052	640	283	167	22	1	0	
MEAN HS (M) = 1.0	LARGEST HS (M) = 5.8		MEAN TP (SEC) = 4.6		NO. OF CASES = 4091.						

STATION H09 44.05N 82.71W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	245	868	309	72	4						1498
0.50-0.99		377	981	545	57	3					1963
1.00-1.49			144	408	197	10					759
1.50-1.99				223	234	60					518
2.00-2.49				2	214	106					327
2.50-2.99					34	201					255
3.00-3.49						91					156
3.50-3.99						6					116
4.00-4.49							109				62
4.50-4.99							62				33
5.00-5.49							22				33
5.50-5.99							5				13
6.00-6.49								11			9
6.50-6.99								28			7
7.00-7.49								12			3
7.50-7.99								4			0
8.00-8.49									1		0
8.50-8.99									3		0
9.00-9.49									7		0
9.50-9.99									3		0
10.00-10.49									7		0
10.50-10.99									3		0
11.00-11.49									7		0
11.50-11.99									3		0
12.00-12.49									7		0
12.50-12.99									3		0
13.00-13.49									7		0
13.50-13.99									3		0
14.00-14.49									7		0
14.50-14.99									3		0
15.00-15.49									7		0
15.50-15.99									3		0
16.00-16.49									7		0
16.50-16.99									3		0
17.00-17.49									7		0
17.50-17.99									3		0
18.00-18.49									7		0
18.50-18.99									3		0
19.00-19.49									7		0
19.50-19.99									3		0
20.00-20.49									7		0
20.50-20.99									3		0
21.00-21.49									7		0
21.50-21.99									3		0
22.00-22.49									7		0
22.50-22.99									3		0
23.00-23.49									7		0
23.50-23.99									3		0
24.00-24.49									7		0
24.50-24.99									3		0
25.00-25.49									7		0
25.50-25.99									3		0
26.00-26.49									7		0
26.50-26.99									3		0
27.00-27.49									7		0
27.50-27.99									3		0
28.00-28.49									7		0
28.50-28.99									3		0
29.00-29.49									7		0
29.50-29.99									3		0
30.00-30.49									7		0
30.50-30.99									3		0
31.00-31.49									7		0
31.50-31.99									3		0
32.00-32.49									7		0
32.50-32.99									3		0
33.00-33.49									7		0
33.50-33.99									3		0
34.00-34.49									7		0
34.50-34.99									3		0
35.00-35.49									7		0
35.50-35.99									3		0
36.00-36.49									7		0
36.50-36.99									3		0
37.00-37.49									7		0
37.50-37.99									3		0
38.00-38.49									7		0
38.50-38.99									3		0
39.00-39.49									7		0
39.50-39.99									3		0
40.00-40.49									7		0
40.50-40.99									3		0
41.00-41.49									7		0
41.50-41.99									3		0
42.00-42.49									7		0
42.50-42.99									3		0
43.00-43.49									7		0
43.50-43.99									3		0
44.00-44.49									7		0
44.50-44.99									3		0
45.00-45.49									7		0
45.50-45.99									3		0
46.00-46.49									7		0
46.50-46.99									3		0
47.00-47.49									7		0
47.50-47.99									3		0
48.00-48.49									7		0
48.50-48.99									3		0
49.00-49.49									7		0
49.50-49.99									3		0
50.00-50.49									7		0
50.50-50.99									3		0
51.00-51.49									7		0
51.50-51.99									3		0
52.00-52.49									7		0
52.50-52.99									3		0
53.00-53.49									7		0
53.50-53.99									3		0
54.00-54.49									7		0
54.50-54.99									3		0
55.00-55.49									7		0
55.50-55.99									3		0
56.00-56.49									7		0
56.50-56.99									3		0
57.00-57.49									7		0
57.50-57.99									3		0
58.00-58.49									7		0
58.50-58.99									3		0
59.00-59.49									7		0
59.50-59.99									3		0
60.00-60.49									7		0
60.50-60.99									3		0
61.00-61.49									7		0
61.50-61.99									3		0
62.00-62.49									7		0
62.50-62.99									3		0
63.00-63.49									7		0
63.50-63.99									3		0
64.00-64.49									7		0
64.50-64.99									3		0
65.00-65.49									7		0
65.50-65.99									3		0
66.00-66.49									7		0
66.50-66.99									3		0
67.00-67.49									7		0
67.50-67.99									3		0
68.00-68.49									7		0
68.50-68.99									3		0
69.00-69.49									7		0
69.50-69.99									3		0
70.00-70.49									7		0
70.50-70.99									3		0
71.00-71.49									7		0
71.50-71.99									3		0
72.00-72.49									7		0
72.50-72.99									3		0
73.00-73.49									7		0
73.50-73.99									3		0
74.00-74.49									7		0
74.50-74.99									3		0
75.00-75.49									7		0
75.50-75.99									3		0
76.00-76.49									7		0
76.50-76.99									3		0
77.00-77.49									7		0
77.50-77.99									3		0
78.00-78.49									7		0
78.50-78.99									3		0
79.00-79.49									7		0
79.50-79.99									3		0
80.00-80.49									7		0
80.50-80.99									3		0
81.00-81.49									7		0
81.50-81.99									3		0
82.00-82.49									7		0
82.50-82.99									3		0
83.00-83.49									7		0
83.50-83.99									3		0
84.00-84.49									7		0
84.50-84.99									3		0
85.00-85.49									7		0
85.50-85.99									3		0
86.00-86.49									7		0
86.50-86.99									3		0
87.00-87.49									7		0
87.50-87.99									3		0
88.00-88.49									7		0
88.50-88.99									3		0
89.00-89.49											

STATION H09 44.05N 82.71W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	300	696	269	71	7	1	.	.	.	.	1344
0.50-0.99	.	379	780	349	43	4	.	.	.	.	1555
1.00-1.49	.	.	109	301	102	8	.	.	.	.	520
1.50-1.99	.	.	1	157	113	19	1	.	.	.	291
2.00-2.49	.	.	.	1	134	20	5	.	.	.	160
2.50-2.99	28	53	7	.	.	.	88
3.00-3.49	1	42	9	.	.	.	52
3.50-3.99	6	36	2	.	.	44
4.00-4.49	14	.	.	.	14
4.50-4.99	5	2	.	.	7
5.00-5.49	3	.	.	3
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	300	1075	1159	879	428	153	77	7	0	0	
MEAN HS(M) = 0.9	LARGEST HS(M) = 5.3		MEAN TP(SEC) = 4.2		NO. OF CASES = 3828.						

STATION H09 44.05N 82.71W AZIMUTH(DEGREES) = 90.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	392	847	303	74	5	1					1622
0.50-0.99		469		296	45	5	2				1647
1.00-1.49			126	317	41	8					492
1.50-1.99				171	142	8	2				323
2.00-2.49				4	155	11	2				172
2.50-2.99					33	50	2				85
3.00-3.49					1	31	2				34
3.50-3.99						6	11	1			18
4.00-4.49							7				7
4.50-4.99							2				2
5.00-5.49							1				1
5.50-5.99							1				0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	392	1316	1259	862	422	120	32	1	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 5.7 MEAN TP(SEC)= 4.0 NO. OF CASES= 4130.

STATION H09 44.05N 82.71W AZIMUTH(DEGREES) = 112.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	402	764	229	57	8						1460
0.50-0.99		391	780	217	28	3	1				1420
1.00-1.49			83	208	51	3	1				346
1.50-1.99				68	108	5					181
2.00-2.49					81	18					99
2.50-2.99					2	31					33
3.00-3.49						7	5				12
3.50-3.99						1	7				8
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	402	1155	1092	550	278	68	14	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.8 MEAN TP(SEC)= 3.8 NO. OF CASES= 3337.

STATION H09 44.05N 82.71W AZIMUTH(DEGREES) = 135.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	589	913	542	98	10						2152
0.50-0.99		604	1028	459	77	4					2172
1.00-1.49			112	220	93	17					442
1.50-1.99			1	72	104	14	1				192
2.00-2.49				1	37	18					56
2.50-2.99					3	9	1				13
3.00-3.49						3	7				10
3.50-3.99							1				1
4.00-4.49							1				1
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	589	1517	1683	850	324	65	11	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 4.0 MEAN TP(SEC)= 3.8 NO. OF CASES= 4721.

STATION H09 44.05N 82.71W AZIMUTH(DEGREES) = 157.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	801	1564	697	380	54	7					3503
0.50-0.99		1814	505	534	439	42	3				3337
1.00-1.49			232	102	259	78	3	1			675
1.50-1.99			53	41	53	34	10	2			193
2.00-2.49				2	22	13	4				41
2.50-2.99						3	3				12
3.00-3.49					1	3	1				5
3.50-3.99							1				1
4.00-4.49							1	1			2
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	801	3378	1487	1059	830	184	26	4	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 4.3 MEAN TP(SEC)= 3.8 NO. OF CASES= 7278.

STATION H09 44.05N 82.71W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	1145	1700	346	121	17	2	.	.	.	.	3331
0.50-0.99	.	1961	481	124	63	13	.	.	.	.	2642
1.00-1.49	.	.	489	6	22	16	1	.	.	.	534
1.50-1.99	.	.	156	42	1	6	4	.	.	.	209
2.00-2.49	.	.	.	26	.	.	1	.	.	.	27
2.50-2.99	.	.	.	2	3	.	.	.	.	.	5
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1145	3661	1472	321	106	37	6	0	0	0	6318.

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.7 MEAN TP(SEC)= 3.2 NO. OF CASES= 6318.

STATION H09 44.05N 82.71W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	865	1283	242	126	24	2	.	.	.	.	2542
0.50-0.99	.	2039	619	93	29	7	3	.	.	.	2790
1.00-1.49	.	.	655	5	5	1	2	.	.	.	668
1.50-1.99	.	.	65	196	2	1	.	.	.	.	264
2.00-2.49	.	.	.	26	.	.	.	.	.	.	28
2.50-2.99	2	.	.	.	.	.	6
3.00-3.49	2	.	.	.	.	.	2
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	865	3322	1581	446	68	12	6	0	0	0	5899.

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.2 MEAN TP(SEC)= 3.3 NO. OF CASES= 5899.

STATION H09 44.05N 82.71W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	772	1381	285	207	51	5	.	.	.	.	2701
0.50-0.99	.	2176	1088	126	62	17	6	.	.	.	3475
1.00-1.49	.	.	894	17	6	1	.	.	.	.	918
1.50-1.99	.	.	31	258	1	1	.	.	.	.	290
2.00-2.49	.	.	.	29	12	.	.	.	.	.	41
2.50-2.99	.	.	.	1	13	.	.	.	.	.	14
3.00-3.49	5	.	.	.	.	.	5
3.50-3.99	1	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	772	3557	2298	638	149	25	6	0	0	0	6970.

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.6 MEAN TP(SEC)= 3.5 NO. OF CASES= 6970.

STATION H09 44.05N 82.71W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	537	1104	240	148	55	1	.	.	.	.	2085
0.50-0.99	.	1700	1223	172	80	23	9	.	.	.	3207
1.00-1.49	.	.	841	257	12	3	.	.	.	.	1113
1.50-1.99	.	.	17	390	23	.	.	.	.	.	470
2.00-2.49	.	.	.	54	85	1	.	.	.	.	150
2.50-2.99	51	16	.	.	.	.	67
3.00-3.49	3	14	.	.	.	.	17
3.50-3.99	1	8	1	.	.	.	10
4.00-4.49	3	.	.	.	3
4.50-4.99	2	.	.	.	2
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	537	2804	2321	1021	360	66	15	0	0	0	6673.

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.6 MEAN TP(SEC)= 3.7 NO. OF CASES= 6673.

STATION H09 44.05N 82.71W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	489	1107	231	144	42	4	.	.	.	.	2017
0.50-0.99	.	1015	1821	421	155	59	9	1	.	.	3481
1.00-1.49	.	.	460	809	36	19	16	2	.	.	1342
1.50-1.99	.	.	3	698	282	1	2	.	.	.	986
2.00-2.49	.	.	.	18	512	47	1	.	.	.	531
2.50-2.99	137	32	.	.	.	.	184
3.00-3.49	2	84	1	.	.	.	86
3.50-3.99	32	1	.	.	.	33
4.00-4.49	8	.	.	.	8
4.50-4.99	2	.	.	.	2
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	489	2122	2515	2090	1166	246	39	3	0	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 4.7 MEAN TP(SEC)= 4.3 NO. OF CASES= 8119.

STATION H09 44.05N 82.71W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	363	876	157	112	28	3	.	.	.	.	1539
0.50-0.99	.	713	1722	480	211	70	13	.	.	.	3209
1.00-1.49	.	.	306	861	142	65	32	1	.	.	1407
1.50-1.99	.	.	1	609	286	11	12	1	.	.	920
2.00-2.49	.	.	.	4	519	5	5	.	.	.	533
2.50-2.99	150	69	2	1	.	.	222
3.00-3.49	91	2	.	.	.	93
3.50-3.99	9	8	.	.	.	17
4.00-4.49	1	10	1	.	.	12
4.50-4.99	3	.	.	.	3
5.00-5.49	0
5.50-5.99	0
6.00-6.49	2	.	.	2
6.50-6.99	0
7.00+	0
TOTAL	363	1589	2186	2066	1336	324	87	6	0	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 6.3 MEAN TP(SEC)= 4.5 NO. OF CASES= 7458.

STATION H09 44.05N 82.71W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	235	623	185	87	37	1	.	.	.	.	1168
0.50-0.99	.	647	1589	595	199	43	2	.	.	.	3075
1.00-1.49	.	1	272	1025	270	84	27	.	.	.	1679
1.50-1.99	.	.	7	710	430	54	23	1	.	.	1225
2.00-2.49	.	.	.	10	715	44	14	.	.	.	783
2.50-2.99	238	156	16	3	1	.	414
3.00-3.49	2	160	13	1	.	.	176
3.50-3.99	40	19	.	.	.	59
4.00-4.49	19	2	.	.	21
4.50-4.99	11	.	.	.	11
5.00-5.49	1	.	.	.	1
5.50-5.99	1	.	.	1
6.00-6.49	1	.	1
6.50-6.99	0
7.00+	0
TOTAL	235	1271	2053	2427	1891	582	145	8	2	0	

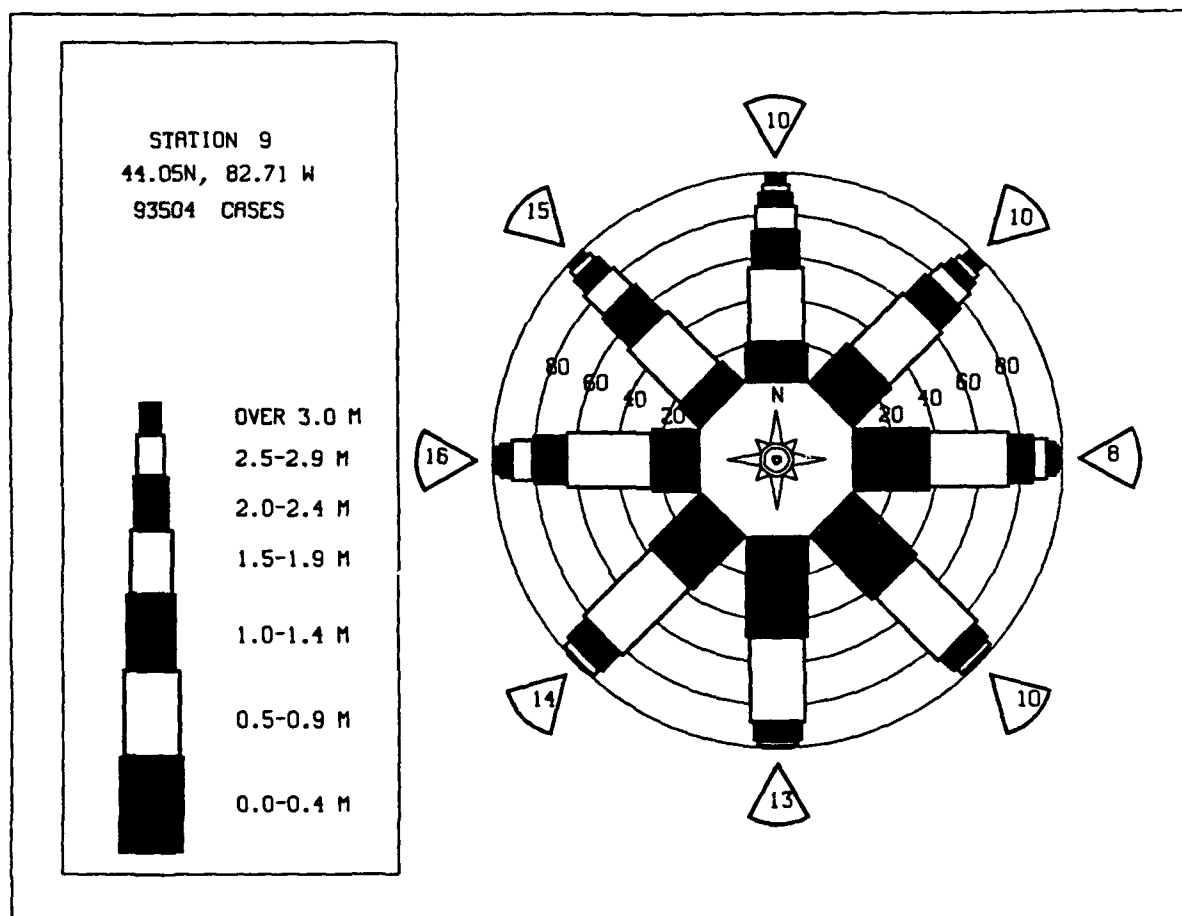
MEAN HS(M) = 1.2 LARGEST HS(M)= 6.2 MEAN TP(SEC)= 4.8 NO. OF CASES= 8072.

STATION H09 44.05N 82.71W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	221	490	160	71	20	.	.	.	.	.	962
0.50-0.99	.	404	975	557	139	16	.	.	.	.	2091
1.00-1.49	.	.	155	592	379	53	6	.	.	.	1185
1.50-1.99	.	.	.	343	395	127	8	1	.	.	873
2.00-2.49	.	.	.	1	318	135	37	.	.	.	492
2.50-2.99	73	176	55	1	.	.	305
3.00-3.49	80	55	3	.	.	138
3.50-3.99	6	77	2	1	.	86
4.00-4.49	1	26	10	.	.	37
4.50-4.99	9	6	.	.	16
5.00-5.49	2	12	1	.	16
5.50-5.99	3	5	.	8
6.00-6.49	4	.	4
6.50-6.99	2	.	2
7.00+	0
TOTAL	221	894	1290	1564	1324	594	275	38	15	0	

MEAN HS(M) = 1.2 LARGEST HS(M)= 6.6 MEAN TP(SEC)= 5.0 NO. OF CASES= 5828.

STATION H09 44.05N 82.71W FOR ALL DIRECTIONS											
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	775	1537	460	192	39	2					3005
0.50-0.99		1544	1623	607	177	33	5				3989
1.00-1.49			510	595	224	39	9				1377
1.50-1.99			34	428	278	55	7				802
2.00-2.49				18	307	62	13				400
2.50-2.99					81	100	24				205
3.00-3.49					1	68	26				96
3.50-3.99						12	41				53
4.00-4.49							20				22
4.50-4.99							7				12
5.00-5.49							1				7
5.50-5.99											3
6.00-6.49											1
6.50-6.99											1
7.00+											0
TOTAL	775	3081	2627	1840	1107	371	153	17	3	0	
MEAN HS(M)= 0.9 LARGEST HS(M)= 7.5 MEAN TP(SEC)= 4.1 TOTAL CASES= 93504.											



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H09 (44.05N 82.71W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	1.0	0.8	0.9	0.9	0.8	0.7	0.6	0.5	0.6	0.6	0.8	0.7	0.8
1957	0.8	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.9	0.9	0.8
1958	1.0	1.4	0.8	1.1	1.1	1.0	0.7	0.9	1.1	1.2	1.3	1.1	1.1
1959	1.5	1.4	1.3	1.5	1.3	1.1	1.1	1.0	1.1	1.2	1.5	1.4	1.3
1960	1.5	1.8	1.4	1.0	1.1	0.8	0.7	0.6	0.7	0.8	1.5	1.1	1.1
1961	1.5	1.4	1.5	1.2	1.1	1.3	0.8	0.7	0.7	1.0	1.0	1.1	1.1
1962	1.1	1.1	0.8	1.1	1.1	1.0	0.7	0.6	1.0	0.7	0.9	1.2	0.9
1963	1.2	1.2	1.1	1.2	1.0	0.7	0.8	0.8	0.8	0.8	1.1	1.0	1.0
1964	1.2	1.1	1.1	1.2	1.1	0.9	0.7	0.8	0.8	1.0	1.1	1.0	1.0
1965	1.3	1.3	1.1	1.0	0.8	0.8	0.9	0.7	0.8	1.2	1.1	1.1	1.0
1966	1.2	1.2	1.1	1.1	1.1	0.7	0.7	0.7	1.0	1.2	1.1	1.0	1.0
1967	1.3	1.3	0.9	1.2	1.1	0.8	0.6	0.7	0.7	1.0	1.1	1.1	1.0
1968	1.1	1.1	1.1	1.1	1.1	0.8	0.7	0.7	0.7	1.0	1.1	1.1	1.0
1969	1.0	1.0	0.8	1.1	1.1	0.8	0.8	0.6	0.8	1.0	1.1	1.1	1.0
1970	0.8	1.1	0.8	1.1	1.1	0.8	0.8	0.6	0.8	1.0	1.1	1.1	1.0
1971	1.1	1.1	1.1	1.1	1.1	0.8	0.8	0.6	0.8	1.0	1.1	1.1	1.0
1972	1.1	1.1	1.1	1.1	1.1	0.8	0.8	0.6	0.8	1.0	1.1	1.1	1.0
1973	1.1	1.1	1.1	1.1	1.1	0.8	0.8	0.6	0.8	1.0	1.1	1.1	1.0
1974	0.8	0.8	1.1	1.1	1.1	0.8	0.8	0.6	0.8	1.0	1.1	1.1	1.0
1975	0.8	0.8	0.8	1.1	1.1	0.8	0.8	0.6	0.8	1.0	1.1	1.1	1.0
1976	1.1	1.1	0.8	1.1	1.1	0.8	0.8	0.6	0.8	1.0	1.1	1.1	1.0
1977	1.1	1.1	0.8	1.1	1.1	0.8	0.8	0.6	0.8	1.0	1.1	1.1	1.0
1978	1.1	1.1	0.8	1.1	1.1	0.8	0.8	0.6	0.8	1.0	1.1	1.1	1.0
1979	1.1	1.1	0.8	1.1	1.1	0.8	0.8	0.6	0.8	1.0	1.1	1.1	1.0
1980	0.8	0.8	1.1	1.1	1.1	0.8	0.8	0.6	0.8	1.0	1.1	1.1	1.0
1981	0.8	0.8	1.1	1.1	1.1	0.8	0.8	0.6	0.8	1.0	1.1	1.1	1.0
1982	1.1	0.8	0.8	1.1	1.1	0.8	0.8	0.6	0.8	1.0	1.1	1.1	1.0
1983	0.8	0.8	0.8	1.1	1.1	0.8	0.8	0.6	0.8	1.0	1.1	1.1	1.0
1984	0.8	0.8	1.1	1.1	1.1	0.8	0.8	0.6	0.8	1.0	1.1	1.1	1.0
1985	0.8	0.8	1.1	1.1	1.1	0.8	0.8	0.6	0.8	1.0	1.1	1.1	1.0
1986	1.1	0.8	1.0	1.0	0.8	0.6	0.6	0.5	0.5	0.6	0.8	0.8	0.7
1987	0.9	0.8	0.9	1.0	0.6	0.6	0.5	0.6	0.5	0.6	1.0	1.0	0.8
MEAN	1.1	1.0	1.0	1.0	0.8	0.7	0.6	0.6	0.7	0.8	1.0	1.0	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H09 (44.05N 82.71W)

YEAR	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	4.1	3.3	5.2	3.3	3.1	3.1	2.3	1.7	2.2	3.3	2.6	2.1	
1957	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1958	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1959	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1960	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1961	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1962	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1963	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1964	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1965	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1966	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1967	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1968	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1969	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1970	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1971	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1972	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1973	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1974	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1975	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1976	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1977	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1978	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1979	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1980	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1981	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1982	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1983	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1984	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1985	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1986	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
1987	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	

32 YR. STATISTICS FOR WIS STATION H09

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.9
MEAN PEAK WAVE PERIOD	(SECONDS)	4.1
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	270.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.7
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.4
LARGEST WAVE HS	(METERS)	7.5
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	10.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	42.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		60021018

STATION H10 44.05N 83.12W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	267	476	218	56	11	2	.	.	.	.	1030
0.50-0.99	.	497	1126	528	83	11	2	.	.	.	2247
1.00-1.49	.	.	257	586	387	34	.	.	.	.	1264
1.50-1.99	.	.	.	286	397	212	4	.	.	.	899
2.00-2.49	.	.	.	6	271	172	56	.	.	.	505
2.50-2.99	43	175	99	2	.	.	319
3.00-3.49	106	88	11	.	.	205
3.50-3.99	3	115	6	3	.	127
4.00-4.49	83	12	.	.	95
4.50-4.99	8	26	1	.	35
5.00-5.49	1	27	4	.	32
5.50-5.99	6	11	.	17
6.00-6.49	1	8	.	9
6.50-6.99	1	2	3
7.00+
TOTAL	267	973	1601	1462	1192	715	456	91	29	4	6370

MEAN HS(M) = 1.3 LARGEST HS(M)= 8.3 MEAN TP(SEC)= 5.0 NO. OF CASES= 6370.

STATION H10 44.05N 83.12W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	181	361	154	36	8	1	.	.	.	.	741
0.50-0.99	.	391	741	311	53	4	.	.	.	.	1500
1.00-1.49	.	.	154	330	237	8	3	1	.	.	733
1.50-1.99	.	.	1	164	152	78	2	.	.	.	397
2.00-2.49	.	.	.	4	102	80	17	.	.	.	203
2.50-2.99	20	74	47	.	.	.	141
3.00-3.49	28	34	3	.	.	65
3.50-3.99	5	58	7	.	.	70
4.00-4.49	48	7	1	.	56
4.50-4.99	2	14	1	.	17
5.00-5.49	7	2	.	9
5.50-5.99	1	4	.	5
6.00-6.49	5	.	5
6.50-6.99	2	.	2
7.00+	0
TOTAL	181	752	1050	845	572	278	211	40	15	0	3703

MEAN HS(M) = 1.1 LARGEST HS(M)= 6.6 MEAN TP(SEC)= 4.7 NO. OF CASES= 3703.

STATION H10 44.05N 83.12W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	231	558	208	36	10	1	.	.	.	.	1044
0.50-0.99	.	398	1054	512	41	4	.	.	.	.	2009
1.00-1.49	.	.	202	529	248	8	.	.	.	.	987
1.50-1.99	.	.	3	272	250	74	.	.	.	.	599
2.00-2.49	.	.	.	8	236	105	23	.	.	.	372
2.50-2.99	57	212	54	.	.	.	323
3.00-3.49	108	103	.	.	.	211
3.50-3.99	8	163	3	.	.	174
4.00-4.49	126	4	.	.	130
4.50-4.99	33	28	1	.	61
5.00-5.49	3	26	1	.	30
5.50-5.99	24	3	.	27
6.00-6.49	1	9	.	10
6.50-6.99	17	7	17
7.00+	11	7	18
TOTAL	231	956	1467	1357	842	520	505	86	41	7	5640

MEAN HS(M) = 1.4 LARGEST HS(M)= 8.7 MEAN TP(SEC)= 5.0 NO. OF CASES= 5640.

STATION H10 44.05N 83.12W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	222	533	177	40	4	1	1	.	.	.	978
0.50-0.99	.	437	1029	390	43	2	1	.	.	.	1902
1.00-1.49	.	.	146	367	151	7	.	.	.	.	671
1.50-1.99	.	.	.	159	181	33	2	.	.	.	375
2.00-2.49	.	.	.	3	112	37	11	.	.	.	163
2.50-2.99	31	89	12	.	.	.	132
3.00-3.49	50	22	.	.	.	72
3.50-3.99	11	54	3	.	.	68
4.00-4.49	31	1	.	.	32
4.50-4.99	16	8	.	.	24
5.00-5.49	2	13	.	.	15
5.50-5.99	6	.	.	6
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	222	970	1352	959	522	230	152	31	0	0	4166

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.9 MEAN TP(SEC)= 4.5 NO. OF CASES= 4166.

STATION H10 44.05N 83.12W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	337	655	268	65	11	.	.	.	.	.	1336
0.50-0.99	.	519	1089	363	48	6	.	.	.	.	2025
1.00-1.49	.	.	175	319	96	7	1	.	.	.	598
1.50-1.99	.	.	1	167	185	21	2	.	.	.	376
2.00-2.49	.	.	.	3	105	38	4	.	.	.	150
2.50-2.99	26	80	3	.	.	.	109
3.00-3.49	2	53	5	.	.	.	60
3.50-3.99	26	1	.	.	27
4.00-4.49	13	2	.	.	15
4.50-4.99	8	1	.	.	9
5.00-5.49	1	1	.	.	2
5.50-5.99	1	.	.	.	1
6.00-6.49	1	.	1
6.50-6.99	0
7.00+	0
TOTAL	337	1174	1533	917	473	205	64	5	1	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 6.2 MEAN TP(SEC)= 4.2 NO. OF CASES= 4418.

STATION H10 44.05N 83.12W AZIMUTH(DEGREES) = 112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	362	557	267	57	5	.	.	.	.	.	1248
0.50-0.99	.	681	641	252	41	4	.	.	.	.	1619
1.00-1.49	.	.	82	131	63	10	.	.	.	.	286
1.50-1.99	.	.	2	29	59	13	1	.	.	.	104
2.00-2.49	18	18	6	.	.	.	42
2.50-2.99	8	2	.	.	.	10
3.00-3.49	2	1	.	.	.	3
3.50-3.99	3	.	.	.	3
4.00-4.49	4	.	.	.	4
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	362	1238	992	469	186	55	17	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 4.1 MEAN TP(SEC)= 3.7 NO. OF CASES= 3114.

STATION H10 44.05N 83.12W AZIMUTH(DEGREES) = 135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	617	761	327	116	27	3	2	.	.	.	1853
0.50-0.99	.	1430	435	241	73	12	3	.	.	.	2194
1.00-1.49	.	.	135	82	100	8	2	.	.	.	327
1.50-1.99	.	.	19	21	17	17	3	.	.	.	77
2.00-2.49	.	.	.	1	2	6	7	.	.	.	16
2.50-2.99	3	2	.	.	.	5
3.00-3.49	0
3.50-3.99	0
4.00-4.49	1	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	617	2191	916	461	219	49	20	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 4.1 MEAN TP(SEC)= 3.5 NO. OF CASES= 4193.

STATION H10 44.05N 83.12W AZIMUTH(DEGREES) = 157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	872	1150	272	95	29	3	.	.	.	.	2421
0.50-0.99	.	1755	308	187	57	3	1	.	.	.	2312
1.00-1.49	.	.	168	19	56	11	.	.	.	.	254
1.50-1.99	.	.	24	18	5	7	1	.	.	.	55
2.00-2.49	.	.	.	6	2	1	2	.	.	.	13
2.50-2.99	.	.	.	1	.	.	.	.	.	.	3
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	872	2905	773	326	149	25	6	0	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.9 MEAN TP(SEC)= 3.2 NO. OF CASES= 4737.

STATION H10 44.05N 83.12W AZIMUTH(DEGREES) =180.0										
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	1150	1500	379	118	22	2	.	.	.	3171
0.50-0.99	.	2428	483	165	53	5	.	.	.	3134
1.00-1.49	.	.	552	6	22	8	3	.	.	591
1.50-1.99	.	.	104	72	.	9	.	.	.	185
2.00-2.49	.	.	.	19	.	.	1	.	.	20
2.50-2.99	2	.	.	.	.	2
3.00-3.49	1	.	1	.	.	2
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1150	3928	1518	380	100	24	5	0	0	0

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.1 MEAN TP(SEC)= 3.2 NO. OF CASES= 6654.

STATION H10 44.05N 83.12W AZIMUTH(DEGREES) =202.5										
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	1056	1215	274	117	34	5	2	.	.	2703
0.50-0.99	.	2657	966	83	40	18	2	.	.	3766
1.00-1.49	.	.	1015	1	8	7	.	.	.	1031
1.50-1.99	.	.	68	312	4	3	1	.	.	388
2.00-2.49	.	.	.	35	11	.	.	.	.	46
2.50-2.99	.	.	.	1	5	.	.	.	.	6
3.00-3.49	5	.	.	.	.	5
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1056	3872	2323	549	107	33	5	0	0	0

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.2 MEAN TP(SEC)= 3.4 NO. OF CASES= 7440.

STATION H10 44.05N 83.12W AZIMUTH(DEGREES) =225.0										
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	1266	1098	342	212	83	9	2	.	.	3012
0.50-0.99	.	2577	1143	115	58	29	6	.	.	3929
1.00-1.49	.	.	1179	6	8	4	2	.	.	1199
1.50-1.99	.	.	16	501	.	.	.	.	.	517
2.00-2.49	.	.	.	70	12	.	.	.	.	82
2.50-2.99	27	.	.	.	.	27
3.00-3.49	11	.	.	.	.	11
3.50-3.99	2	1	.	.	.	3
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1266	3675	2680	904	202	43	10	0	0	0

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.9 MEAN TP(SEC)= 3.5 NO. OF CASES= 8221.

STATION H10 44.05N 83.12W AZIMUTH(DEGREES) =247.5										
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	930	973	285	182	68	14	4	1	.	2457
0.50-0.99	.	2015	1027	136	101	37	4	.	.	3320
1.00-1.49	.	.	997	143	10	20	2	.	.	1172
1.50-1.99	.	.	10	563	.	2	1	.	.	576
2.00-2.49	.	.	.	65	68	.	.	.	.	133
2.50-2.99	40	.	.	.	.	40
3.00-3.49	8	6	.	.	.	14
3.50-3.99	1	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	930	2988	2319	1089	295	80	11	1	0	0

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.9 MEAN TP(SEC)= 3.6 NO. OF CASES= 7225.

STATION H10 44.05N 83.12W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	749	894	273	156	105	22	3				2202
0.50-0.99		1590	976	256	179	106	26	2			3135
1.00-1.49			1015	281	34	25	14				1369
1.50-1.99			4	904	1	5	5				919
2.00-2.49				71	160	1					232
2.50-2.99					60		1				61
3.00-3.49					11	4					15
3.50-3.99						4					4
4.00-4.49						1					1
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	749	2484	2268	1668	550	168	49	2	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.0 MEAN TP(SEC)= 3.9 NO. OF CASES= 7437.

STATION H10 44.05N 83.12W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	522	733	166	116	48	12	1				1598
0.50-0.99		1259	1298	274	228	112	18				3188
1.00-1.49			1030	276	85	85	24	1			1511
1.50-1.99			4	743	11	26	25				809
2.00-2.49				62	192	4	8				266
2.50-2.99					83	1	1				85
3.00-3.49					8	8	1				17
3.50-3.99						10					10
4.00-4.49						1	1				2
4.50-4.99											0
5.00-5.49							2				2
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	522	1992	2498	1471	655	269	81	1	0	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 5.2 MEAN TP(SEC)= 4.1 NO. OF CASES= 7019.

STATION H10 44.05N 83.12W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	328	537	232	87	52	8	1				1245
0.50-0.99		802	1465	405	223	72	5				2972
1.00-1.49			974	521	204	105	27				1831
1.50-1.99			6	904	81	87	32				1110
2.00-2.49				44	499	26	26				595
2.50-2.99					209	7	10				226
3.00-3.49					17	42	9	1			69
3.50-3.99						18	3				21
4.00-4.49						4	5				9
4.50-4.99							1		1		2
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	328	1339	2677	1961	1285	369	119	1	1	0	

MEAN HS(M) = 1.1 LARGEST HS(M)= 4.5 MEAN TP(SEC)= 4.5 NO. OF CASES= 7572.

STATION H10 44.05N 83.12W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	272	439	174	69	25	5					984
0.50-0.99		518	997	448	133	19	2				2117
1.00-1.49			486	455	291	89	12				1333
1.50-1.99			3	476	137	142	14				772
2.00-2.49				38	293	59	32				422
2.50-2.99					104	60	29	4			197
3.00-3.49					3	42	17	2			64
3.50-3.99						2	25	2			29
4.00-4.49						1	10	5			16
4.50-4.99							7	6			13
5.00-5.49							1	4	1		6
5.50-5.99								1	2		3
6.00-6.49								1	1		2
6.50-6.99									3		3
7.00+											0
TOTAL	272	957	1660	1486	986	419	149	25	7	0	

MEAN HS(M) = 1.1 LARGEST HS(M)= 6.7 MEAN TP(SEC)= 4.7 NO. OF CASES= 5595.

STATION H10 44.05N 83.12W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

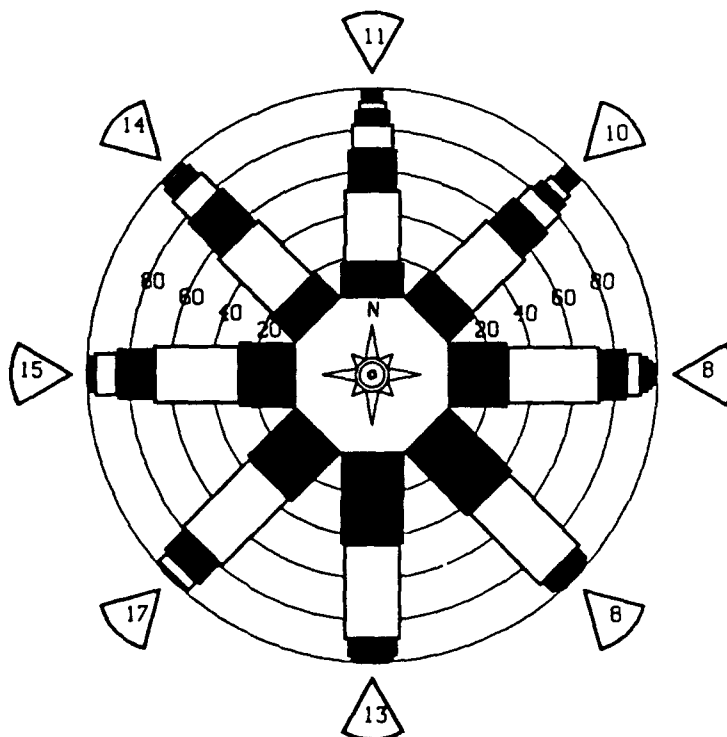
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	937	1244	402	156	55	9	1	.	.	.	2804
0.50-0.99	.	1996	1478	467	146	45	7	.	.	.	4139
1.00-1.49	.	.	857	405	200	45	9	.	.	.	1516
1.50-1.99	.	.	26	560	148	73	19	.	.	.	816
2.00-2.49	.	.	.	44	208	55	26	.	.	.	326
2.50-2.99	71	45	28	1	.	.	168
3.00-3.49	6	6	45	2	.	.	80
3.50-3.99	32	3	.	.	53
4.00-4.49	7	8	.	.	35
4.50-4.99	1	3	.	.	15
5.00-5.49	2	.	.	9
5.50-5.99	2	.	.	5
6.00-6.49	2	.	.	2
6.50-6.99	1	.	.	1
7.00+
TOTAL	937	3240	2763	1632	834	349	184	25	7	0	93504

MEAN HS(M)= 0.9 LARGEST HS(M)= 8.7 MEAN TP(SEC)= 4.0 TOTAL CASES= 93504.

STATION 10
44.05N, 83.12 W
93504 CASES



OVER 3.0 M
2.5-2.9 M
2.0-2.4 M
1.5-1.9 M
1.0-1.4 M
0.5-0.9 M
0.0-0.4 M



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H10 (44.05N 83.12W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
YEAR													
1956	1.0	0.7	0.9	0.8	0.7	0.7	0.5	0.5	0.6	0.7	0.7	0.6	0.7
1957	0.7	0.7	0.8	0.7	0.8	0.6	0.5	0.6	0.6	0.8	0.8	0.8	0.7
1958	0.9	1.2	0.8	1.1	1.1	1.0	0.7	0.8	1.0	1.1	1.2	1.1	1.0
1959	1.4	1.4	1.3	1.6	1.3	1.1	1.1	1.0	1.2	1.5	1.3	1.1	1.3
1960	1.4	1.4	1.5	1.0	1.1	1.1	0.9	0.8	0.7	0.7	1.4	1.5	1.1
1961	1.5	1.4	1.4	1.2	1.1	1.3	0.8	0.7	0.8	1.0	0.9	0.9	1.1
1962	1.1	1.1	0.8	1.1	1.0	0.8	0.8	0.7	0.8	0.7	0.9	1.1	0.9
1963	1.2	1.1	1.2	1.2	0.9	0.7	0.8	0.9	0.8	0.8	1.0	1.0	1.0
1964	1.1	1.1	1.0	1.3	1.1	1.0	0.9	0.8	0.9	0.9	0.9	1.1	1.0
1965	1.2	1.3	1.3	1.0	0.8	0.9	0.7	0.8	0.8	1.1	1.1	1.0	1.0
1966	1.2	1.3	1.0	1.1	1.0	0.8	0.6	0.7	0.7	0.9	0.9	1.1	1.0
1967	1.2	1.3	1.0	1.1	0.8	0.9	0.7	0.7	0.7	0.9	0.9	1.1	1.0
1968	1.1	1.1	1.1	1.0	0.9	0.9	0.8	0.7	0.7	0.8	1.2	1.3	1.0
1969	0.9	0.9	0.9	0.8	0.8	0.8	0.7	0.6	0.8	0.9	0.8	1.1	0.9
1970	0.8	1.3	0.8	1.1	1.1	0.9	0.8	0.7	0.7	0.7	1.3	1.3	1.0
1971	0.9	1.1	0.9	0.8	0.8	0.4	0.4	0.4	0.4	0.5	0.8	0.8	0.7
1972	0.8	0.7	0.9	0.7	0.5	0.6	0.4	0.4	0.5	0.7	0.7	0.7	0.6
1973	1.0	1.0	1.1	1.3	0.8	0.5	0.6	0.6	0.7	0.9	0.9	1.2	0.9
1974	0.8	1.0	1.2	1.0	1.0	0.8	0.7	0.5	0.7	0.7	0.7	0.8	0.8
1975	0.8	0.9	1.0	1.2	0.6	0.6	0.5	0.6	0.7	0.9	0.9	0.9	0.8
1976	1.0	1.0	1.3	1.1	1.0	0.7	0.9	0.7	0.8	1.1	0.8	0.9	0.9
1977	1.1	1.1	0.9	0.9	0.8	0.9	0.7	0.6	0.6	0.9	0.8	1.0	0.9
1978	1.4	0.8	0.7	1.0	0.9	0.6	0.7	0.6	0.9	0.8	0.8	0.9	0.8
1979	1.2	1.2	0.8	1.1	0.9	0.7	0.6	0.7	0.7	0.8	0.8	0.9	0.9
1980	0.7	0.8	1.2	1.0	0.6	0.8	0.5	0.5	0.6	0.8	1.0	1.0	0.8
1981	0.8	0.9	1.0	1.1	1.0	0.6	0.6	0.5	0.7	0.8	0.8	0.8	0.8
1982	1.2	0.9	0.9	1.1	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.7	0.7
1983	0.9	0.8	1.2	1.1	0.9	0.6	0.5	0.5	0.5	0.7	1.2	0.8	0.8
1984	0.8	0.8	1.3	1.2	0.9	0.5	0.4	0.4	0.5	0.5	0.8	0.8	0.8
1985	0.9	0.8	1.3	0.9	0.8	0.7	0.6	0.6	0.6	0.6	1.0	0.8	0.8
1986	1.1	1.0	1.0	1.0	0.9	0.7	0.5	0.6	0.5	0.6	0.7	0.8	0.8
1987	1.0	1.0	1.0	1.0	0.6	0.6	0.5	0.6	0.5	0.6	0.9	0.8	0.8
MEAN	1.0	1.0	1.1	1.1	0.9	0.7	0.7	0.6	0.7	0.8	0.9	1.0	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H10 (44.05N 83.12W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
YEAR													
1956	4.0	2.8	5.1	2.6	2.8	2.6	1.9	1.7	2.1	3.3	2.4	1.9	
1957	4.5	3.3	4.5	3.4	3.5	3.3	3.3	3.5	3.7	3.3	3.3	2.4	
1958	4.7	4.3	4.1	4.7	4.7	4.9	4.3	4.5	4.3	4.3	4.3	2.4	
1959	4.5	4.2	4.5	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3	2.4	
1960	6.0	6.7	6.1	5.1	4.8	4.7	4.8	4.3	4.3	4.3	4.3	4.3	
1961	5.2	5.1	5.6	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	
1962	5.6	5.6	5.3	4.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1963	5.6	5.6	5.6	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.3	
1964	5.4	5.3	5.2	4.6	4.6	4.4	4.4	4.4	4.4	4.4	4.4	4.3	
1965	5.3	5.3	5.8	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.3	
1966	7.5	7.5	4.4	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	4.3	
1967	7.8	7.5	4.1	5.1	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.3	
1968	5.4	5.0	5.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.4	
1969	3.0	3.1	4.4	6.9	3.5	2.6	2.7	2.7	2.7	2.7	2.7	4.4	
1970	3.9	4.0	6.9	7.4	3.4	3.9	3.5	2.7	3.3	3.3	3.3	6.4	
1971	3.7	4.1	3.2	4.1	2.3	3.0	1.4	1.6	1.3	2.2	3.3	3.0	
1972	2.5	2.5	3.7	4.1	1.9	3.8	1.4	1.3	1.3	3.3	4.2	2.8	
1973	4.4	4.4	5.8	7.4	3.1	3.4	2.0	2.6	2.6	3.3	3.5	4.6	
1974	4.9	4.2	4.2	3.1	4.6	3.3	2.7	3.5	2.9	2.8	4.7	3.5	
1975	3.0	4.4	4.1	6.7	2.9	2.0	2.0	3.0	3.8	4.8	4.0	4.1	
1976	3.0	2.9	5.0	6.1	3.2	4.0	4.4	3.0	3.2	3.3	2.3	3.1	
1977	5.4	4.9	3.8	4.2	6.4	3.8	2.8	2.2	2.2	4.4	4.1	5.8	
1978	8.3	3.9	3.7	3.7	3.4	2.3	2.4	2.2	3.7	3.1	2.1	3.3	
1979	3.8	3.9	3.0	5.2	4.9	2.6	2.4	3.3	2.8	3.5	2.5	5.0	
1980	3.5	3.4	4.9	4.9	3.0	3.1	2.6	1.7	2.5	2.2	3.2	6.3	
1981	2.6	2.6	4.2	3.5	4.6	2.2	2.8	2.2	3.6	3.9	3.2	3.6	
1982	4.8	4.9	3.0	4.5	2.7	2.3	2.0	2.6	2.7	2.4	2.2	2.3	
1983	4.3	2.6	3.6	4.0	4.5	3.1	2.2	4.2	2.5	2.3	4.9	2.4	
1984	2.4	5.9	4.8	4.1	3.1	2.3	1.4	1.8	1.4	6.6	4.4	2.7	
1985	6.4	3.1	3.4	2.8	3.1	2.1	1.5	1.8	2.1	9.0	3.5	2.8	
1986	3.8	4.5	3.2	2.7	5.3	2.8	1.6	2.5	2.0	2.0	2.5	2.6	
1987	4.3	6.7	3.9	4.0	2.5	2.6	1.8	2.4	2.2	2.2	2.5	3.0	

32 YR. STATISTICS FOR WIS STATION H10

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	0.9
MEAN PEAK WAVE PERIOD (SECONDS)	4.0
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	225.0
STANDARD DEVIATION OF WAVE HS (METERS)	0.7
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.4
LARGEST WAVE HS (METERS)	8.7
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	47.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	60021018

STATION H11 44.05N 83.32W AZIMUTH(DEGREES) = 0.0										
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	502	614	228	82	6	1	.	.	.	1433
0.50-0.99	.	1118	733	463	199	21	3	.	.	2537
1.00-1.49	.	.	707	77	198	112	7	.	.	1101
1.50-1.99	.	.	22	372	44	140	71	1	.	650
2.00-2.49	.	.	.	67	24	66	143	4	1	305
2.50-2.99	16	3	79	20	2	120
3.00-3.49	9	1	11	24	3	48
3.50-3.99	1	1	1	10	13	27
4.00-4.49	1	5	6
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	502	1732	1690	1061	497	345	315	60	24	1

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.4 MEAN TP(SEC)= 4.3 NO. OF CASES= 5840.

STATION H11 44.05N 83.32W AZIMUTH(DEGREES) = 22.5										
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	302	487	106	28	3	.	1	.	.	926
0.50-0.99	.	563	639	266	57	4	.	.	.	1530
1.00-1.49	.	.	250	133	166	9	.	.	.	558
1.50-1.99	.	.	7	114	88	72	3	.	.	284
2.00-2.49	.	.	.	5	54	62	23	1	.	145
2.50-2.99	16	33	36	.	.	85
3.00-3.49	1	14	24	.	.	39
3.50-3.99	3	26	2	.	31
4.00-4.49	19	6	.	25
4.50-4.99	2	5	.	7
5.00-5.49	5	.	7
5.50-5.99	2	2	3
6.00-6.49	1	3
6.50-6.99	3	3
7.00+	0
TOTAL	302	1050	1002	546	385	197	134	21	9	0

MEAN HS(M) = 0.9 LARGEST HS(M)= 6.8 MEAN TP(SEC)= 4.3 NO. OF CASES= 3426.

STATION H11 44.05N 83.32W AZIMUTH(DEGREES) = 45.0										
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	378	597	163	35	3	.	.	.	.	1176
0.50-0.99	.	499	1091	373	31	.	.	.	.	1994
1.00-1.49	.	.	346	392	208	2	.	.	.	948
1.50-1.99	.	.	5	311	209	82	4	.	.	611
2.00-2.49	.	.	.	11	222	95	23	.	.	351
2.50-2.99	67	181	56	.	.	304
3.00-3.49	1	86	86	1	.	174
3.50-3.99	14	166	2	.	182
4.00-4.49	115	7	.	122
4.50-4.99	26	36	.	62
5.00-5.49	1	37	.	38
5.50-5.99	13	9	22
6.00-6.49	4	6	10
6.50-6.99	22	22
7.00+	7	19
TOTAL	378	1096	1605	1122	741	460	477	100	44	12

MEAN HS(M) = 1.4 LARGEST HS(M)= 9.3 MEAN TP(SEC)= 4.8 NO. OF CASES= 5663.

STATION H11 44.05N 83.32W AZIMUTH(DEGREES) = 67.5										
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	314	563	125	26	3	1	.	.	.	1032
0.50-0.99	.	501	1110	311	22	.	.	.	.	1944
1.00-1.49	.	.	190	385	135	2	.	.	.	712
1.50-1.99	.	.	2	196	173	42	.	.	.	413
2.00-2.49	.	.	.	5	131	36	13	.	.	185
2.50-2.99	29	89	19	.	.	137
3.00-3.49	2	56	27	.	.	85
3.50-3.99	7	64	2	1	74
4.00-4.49	52	2	.	54
4.50-4.99	16	13	.	29
5.00-5.49	3	14	1	18
5.50-5.99	7	6	13
6.00-6.49	2	.	2
6.50-6.99	1	0
7.00+	1
TOTAL	314	1064	1427	923	495	233	194	40	9	0

MEAN HS(M) = 1.1 LARGEST HS(M)= 7.2 MEAN TP(SEC)= 4.4 NO. OF CASES= 4410.

STATION H11 44.05N 83.32W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	440	707	170	40	2	.	.	.	.	.	1359
0.50-0.99	.	513	1202	308	28	.	.	.	.	.	2051
1.00-1.49	.	.	180	337	95	5	.	.	.	.	617
1.50-1.99	.	.	.	172	178	27	1	.	.	.	378
2.00-2.49	.	.	.	3	115	53	7	.	.	.	178
2.50-2.99	21	70	5	.	.	.	86
3.00-3.49	1	53	13	.	.	.	67
3.50-3.99	1	32	.	.	.	33
4.00-4.49	19	3	.	.	22
4.50-4.99	6	5	.	.	8
5.00-5.49	4	.	.	7
5.50-5.99	1
6.00-6.49	0
6.50-6.99	1	.	1
7.00+	0
TOTAL	440	1220	1552	860	440	209	84	12	1	0	
MEAN HS(M) = 0.9	LARGEST HS(M) = 6.7		MEAN TP(SEC) = 4.1		NO. OF CASES = 4518.						

STATION H11 44.05N 83.32W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	474	606	164	24	2						1270
0.50-0.99		702	689	237	32						1661
1.00-1.49			86	112	65	11					284
1.50-1.99				32	42	21					100
2.00-2.49			3		12	16					32
2.50-2.99						6					9
3.00-3.49							3				4
3.50-3.99						1		1			1
4.00-4.49							1				1
4.50-4.99											1
5.00-5.49								1			0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	474	1308	952	405	153	56	13	2	0	0	
MEAN HS(M) = 0.6	LARGEST HS(M)=		4.9	MEAN TP(SEC)=		3.6	NO. OF CASES=		3154.		

STATION H11 44.05N 83.32W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	729	860	179	52	16	2	1	1	.	.	1840
0.50-0.99	.	1487	464	170	44	3	.	.	.	.	2168
1.00-1.49	.	.	157	57	75	5	.	.	.	.	294
1.50-1.99	.	.	18	27	10	8	3	.	.	.	66
2.00-2.49	.	.	.	3	2	8	4	.	.	.	17
2.50-2.99	1	1	.	.	.	2
3.00-3.49	1	.	.	.	1
3.50-3.99	0
4.00-4.49	1	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	729	2347	818	309	147	27	11	1	0	0	
MEAN HS(M) = 0.6	LARGEST HS(M)=	4.1	MEAN TP(SEC)=	3.3	NO. OF CASES=	4114.					

STATION H11 44.05N 83.32W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	964	1251	183	66	11	.	.	.	.	.	2475
0.50-0.99	.	1809	312	131	36	2	.	.	.	.	2290
1.00-1.49	.	.	177	12	49	10	.	.	.	.	248
1.50-1.99	.	.	21	19	3	4	2	.	.	.	49
2.00-2.49	.	.	.	7	2	1	1	.	.	.	11
2.50-2.99	1	1	1	.	.	3
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	964	3060	693	235	101	18	4	1	0	0	4755
MEAN HS(M) = 0.5	LARGEST HS(M) = 2.9		MEAN TP(SEC) = 3.1		NO. OF CASES = 4755						

STATION H11 44.05N 83.32W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1455	1680	222	86	11	1					3455
0.50-0.99		2935	565	88	29	6	1				3624
1.00-1.49			729	5	18	11	2				765
1.50-1.99			139	87	2	7					235
2.00-2.49				24		1	1				26
2.50-2.99					2						2
3.00-3.49					1						1
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	1455	4615	1655	290	63	26	4	0	0	0	
MEAN HS (M) = 0.6	LARGEST HS (M) = 3.0		MEAN TP (SEC) = 3.1		NO. OF CASES = 7591.						

STATION H11 44.05N 83.32W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1451	1283	172	93	18	2	1	.	.	.	3020
0.50-0.99	.	3007	1117	44	20	2	.	.	.	.	4190
1.00-1.49	.	.	1214	2	4	3	.	.	.	.	1223
1.50-1.99	.	.	65	405	2	2	.	.	.	.	474
2.00-2.49	.	.	.	49	.	.	.	.	.	.	58
2.50-2.99	.	.	.	1	.	.	.	.	.	.	10
3.00-3.49	9	.	1	.	.	.	7
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1451	4290	2568	594	68	9	2	0	0	0	
MEAN HS (M) = 0.7	LARGEST HS (M) = 3.2		MEAN TP (SEC) = 3.3		NO. OF CASES = 8406.						

STATION H11 44.05N 83.32W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1782	1045	205	133	35	7	1	.	.	.	3208
0.50-0.99	.	2694	1017	38	14	4	.	.	.	.	3767
1.00-1.49	.	.	1055	.	2	1	.	.	.	.	1058
1.50-1.99	.	.	13	483	1	.	.	.	.	.	497
2.00-2.49	.	.	.	89	9	.	.	.	.	.	88
2.50-2.99	29	.	.	.	.	.	29
3.00-3.49	11	.	.	.	.	.	11
3.50-3.99	1	3	.	.	.	.	4
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1782	3739	2290	743	102	15	1	0	0	0	
MEAN HS(M) = 0.7	LARGEST HS(M)= 3.9		MEAN TP(SEC)= 3.3		NO. OF CASES= 8119.						

STATION H11 44.05N 83.32W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1452	1006	179	147	38	8	3	1	.	.	2834
0.50-0.99	.	2210	613	36	13	4	1	.	.	.	2877
1.00-1.49	.	.	823	.	.	1	.	.	.	.	824
1.50-1.99	.	.	83	245	.	.	.	.	.	.	328
2.00-2.49	.	.	.	43	12	.	.	.	.	.	55
2.50-2.99	.	.	.	2	16	.	.	.	.	.	18
3.00-3.49	4	.	.	.	.	.	4
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1452	3216	1698	473	83	13	4	1	0	0	
MEAN HS (M) = 0.6	LARGEST HS (M) = 3.4		MEAN TP (SEC) = 3.2		NO. OF CASES = 6499.						

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1438	1162	208	171	68	13	4	.	.	.	3064
0.50-0.99	.	2528	555	73	37	3	5	.	.	.	3201
1.00-1.49	.	.	980	.	1	1	1	1	.	.	984
1.50-1.99	.	.	206	165	.	1	.	.	.	.	372
2.00-2.49	.	.	.	39	.	.	.	.	.	.	39
2.50-2.99	.	.	.	1	6	.	.	.	.	.	7
3.00-3.49	1	.	.	.	.	.	1
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1438	3690	1949	449	113	18	10	1	0	0	
MEAN HS (M) = 0.6	LARGEST HS (M) = 3.0		MEAN TP (SEC) = 3.2		NO. OF CASES = 7178.						

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.0 MEAN TP(SEC)= 3.2 NO. OF CASES= 7178.

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	967	1069	167	144	53	11	2	.	.	.	2413
0.50-0.99	.	2379	592	72	52	16	4	.	.	.	3115
1.00-1.49	.	.	772	2	6	3	4	.	.	.	787
1.50-1.99	.	.	103	223	2	.	3	.	.	.	331
2.00-2.49	.	.	.	50	6	.	.	.	.	.	56
2.50-2.99	.	.	.	1	11	.	.	.	.	.	12
3.00-3.49	2	.	.	.	.	.	2
3.50-3.99	1	1	.	.	.	.	2
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	967	3448	1634	492	133	31	13	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.9 MEAN TP(SEC)= 3.3 NO. OF CASES= 6292

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	719	753	211	150	40	5	1	.	.	.	1879
0.50-0.99	.	2236	1196	132	116	45	9	.	.	.	3734
1.00-1.49	.	.	1183	8	27	28	20	2	.	.	1268
1.50-1.99	.	.	55	711	.	6	14	4	.	.	790
2.00-2.49	.	.	.	101	21	.	2	2	1	.	127
2.50-2.99	27	.	.	.	.	.	27
3.00-3.49	6	.	.	.	.	.	6
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	719	2989	2645	1102	232	84	46	8	1	0	0

MEAN HS(M) = 0.8 LARGEST HS(M)= 3.3 MEAN TP(SEC)= 3.7 NO. OF CASES= 7338.

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	555	621	195	97	23	3					1494
0.50-0.99		1492	883	268	225	44	5				2917
1.00-1.49			942	71	71	95	19	1			1165
1.50-1.99			80	566	7	39	51	3			746
2.00-2.49				120	27	4	33	10	2		196
2.50-2.99				2	16		8	4			32
3.00-3.49					12			5	6	1	25
3.50-3.99						4					4
4.00-4.49						1					1
4.50-4.99						1					1
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	555	2113	2100	1124	381	192	116	23	10	1	

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.6 MEAN TP(SEC)= 4.0 NO. OF CASES= 6201.

STATION H11 44.05N 83.32W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

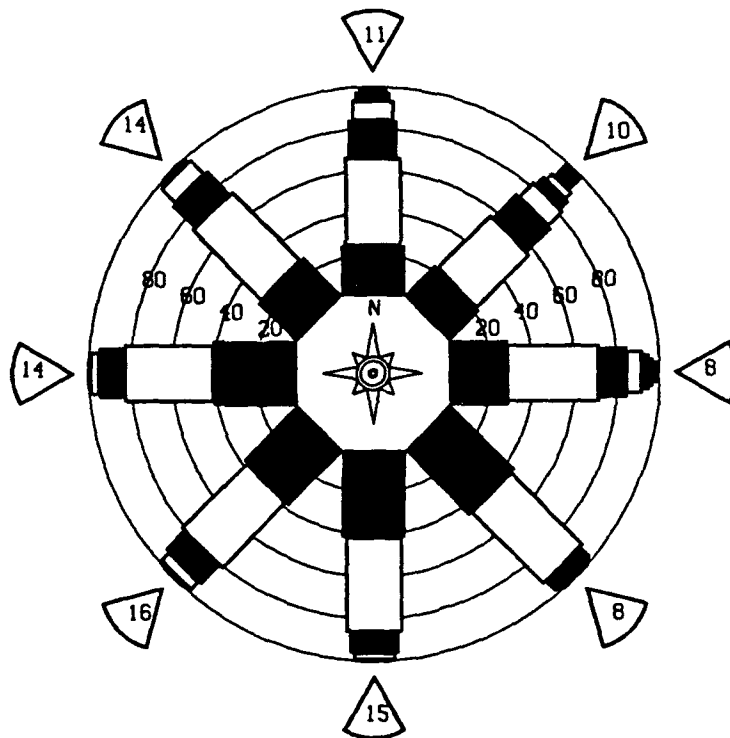
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1393	1431	288	138	33	5	1	.	.	.	3289
0.50-0.99	.	2668	1278	301	96	15	3	.	.	.	4361
1.00-1.49	.	.	980	159	112	30	5	.	.	.	1286
1.50-1.99	.	.	82	413	76	45	15	.	.	.	631
2.00-2.49	.	.	.	62	65	34	25	.	.	.	187
2.50-2.99	27	38	21	.	.	.	88
3.00-3.49	6	21	16	.	1	.	46
3.50-3.99	3	29	.	.	.	34
4.00-4.49	20	.	.	.	22
4.50-4.99	5	.	.	.	10
5.00-5.49	6
5.50-5.99	1	.	3
6.00-6.49	2	.	0
6.50-6.99	1	2
7.00+	1
TOTAL	1393	4099	2628	1073	415	191	140	22	4	1	93504

MEAN HS(M)= 0.8 LARGEST HS(M)= 9.3 MEAN TP(SEC)= 3.6 TOTAL CASES= 93504.

STATION 11
44.05N, 83.32 W
93504 CASES



OVER 3.0 M
2.5-2.9 M
2.0-2.4 M
1.5-1.9 M
1.0-1.4 M
0.5-0.9 M
0.0-0.4 M



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H11 (44.05N 83.32W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.8	0.6	0.8	0.7	0.7	0.6	0.5	0.4	0.5	0.6	0.6	0.5	0.6
1957	0.6	0.6	0.7	0.6	0.8	0.5	0.5	0.5	0.5	0.7	0.7	0.6	0.6
1958	0.8	0.8	0.7	1.0	0.8	0.9	0.7	0.7	0.9	0.9	1.1	0.9	0.9
1959	1.0	1.2	1.1	1.4	1.2	1.0	1.0	0.9	1.0	1.3	1.1	1.1	1.1
1960	1.2	1.5	1.3	0.8	1.0	0.8	0.7	0.6	0.7	0.6	0.5	0.5	0.8
1961	0.9	0.9	1.3	1.1	1.0	0.8	0.7	0.7	0.7	0.9	0.8	0.8	0.8
1962	1.0	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8
1963	1.1	1.0	1.0	1.0	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8
1964	1.1	1.0	1.2	0.9	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.8
1965	0.9	0.8	1.0	1.1	0.9	0.6	0.7	0.6	0.8	0.8	0.8	0.8	0.8
1966	1.1	1.2	0.8	0.8	0.8	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8
1967	1.0	0.8	0.8	0.7	0.8	0.9	0.7	0.6	0.6	0.7	1.0	1.2	0.8
1968	0.7	1.1	0.9	1.3	1.1	0.8	0.7	0.6	0.7	0.7	1.1	1.1	0.9
1969	0.7	0.5	0.8	0.6	0.5	0.3	0.4	0.4	0.4	0.5	0.7	0.7	0.6
1970	0.7	0.5	0.8	0.6	0.4	0.5	0.3	0.3	0.4	0.6	0.6	0.6	0.5
1971	0.9	0.8	1.0	1.2	0.7	0.5	0.6	0.6	0.6	0.8	0.8	1.0	0.8
1972	0.7	0.8	1.0	0.8	0.8	0.8	0.6	0.5	0.6	0.6	0.6	0.7	0.7
1973	0.7	0.8	1.1	1.0	0.8	0.7	0.8	0.8	0.5	0.7	0.7	0.9	0.7
1974	0.7	0.8	1.1	1.0	0.8	0.8	0.7	0.8	0.6	0.7	0.7	0.7	0.7
1975	0.7	0.8	1.1	1.0	0.8	0.8	0.7	0.8	0.5	0.7	0.7	0.8	0.7
1976	0.8	0.8	1.1	1.0	0.8	0.8	0.7	0.8	0.6	0.7	0.7	0.7	0.7
1977	0.8	0.8	1.1	1.0	0.8	0.8	0.7	0.8	0.5	0.7	0.7	0.7	0.7
1978	1.1	0.6	0.7	0.8	0.8	0.5	0.6	0.5	0.8	0.7	0.8	0.8	0.7
1979	0.9	1.0	0.7	1.0	0.8	0.6	0.5	0.6	0.6	0.7	0.7	0.8	0.7
1980	0.6	0.7	1.0	0.9	0.6	0.7	0.4	0.5	0.5	0.7	0.8	0.8	0.7
1981	0.6	0.7	0.8	0.8	0.8	0.5	0.5	0.4	0.6	0.7	0.6	0.7	0.7
1982	1.0	0.8	0.7	0.8	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6
1983	0.7	0.7	1.0	1.0	0.7	0.6	0.5	0.5	0.5	0.7	1.0	0.7	0.7
1984	0.7	0.7	1.1	1.1	0.7	0.5	0.4	0.3	0.4	0.5	0.7	0.7	0.6
1985	0.7	0.6	1.1	0.7	0.7	0.6	0.5	0.5	0.5	0.6	0.9	0.7	0.7
1986	0.9	0.9	0.8	0.9	0.7	0.6	0.5	0.5	0.5	0.5	0.7	0.7	0.7
1987	0.8	0.8	0.9	0.8	0.6	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7
MEAN	0.9	0.9	0.9	0.9	0.8	0.7	0.6	0.6	0.6	0.7	0.8	0.8	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H11 (44.05N 83.32W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.3	2.8	5.0	2.5	2.9	2.1	1.8	1.3	1.6	3.3	1.6	1.5	
1957	2.1	3.2	3.3	3.3	3.3	2.3	1.8	1.8	2.1	3.3	2.2	2.2	
1958	2.7	4.2	4.9	6.1	3.4	3.2	3.2	3.4	4.0	3.3	4.4	4.4	
1959	4.0	7.2	4.4	4.4	4.1	3.0	2.2	3.3	3.3	4.4	4.4	4.4	
1960	6.6	9.3	4.9	3.2	4.6	4.8	3.8	1.1	1.0	2.2	4.0	3.4	
1961	4.8	5.4	4.6	3.5	3.1	3.0	3.1	1.1	2.0	4.4	2.7	4.4	
1962	5.8	4.4	3.3	3.5	3.4	3.6	3.6	3.4	4.0	3.3	4.0	3.3	
1963	5.8	3.6	4.6	3.7	3.4	2.4	3.3	3.8	3.8	2.2	2.5	3.4	
1964	5.4	3.1	6.5	3.7	3.4	2.3	3.4	1.0	2.2	2.3	2.8	5.5	
1965	5.6	4.6	6.7	4.2	3.1	4.3	2.2	1.7	3.3	2.2	2.9	7.0	
1966	2.2	2.6	4.6	5.6	3.0	1.6	2.8	3.3	3.7	2.2	3.7	2.4	
1967	7.9	7.8	4.1	4.4	3.0	2.1	1.8	2.2	2.4	2.2	2.1	3.7	
1968	5.5	3.0	4.0	3.2	2.8	4.7	1.1	2.7	2.7	2.1	4.7	6.8	
1969	2.3	3.1	4.8	6.8	3.5	2.3	2.7	1.9	2.5	4.5	2.3	3.6	
1970	2.2	3.7	7.2	7.9	3.3	4.2	2.3	1.9	2.3	2.2	3.8	6.6	
1971	3.8	3.7	2.2	2.2	2.3	1.5	0.8	1.3	1.2	2.2	3.6	3.2	
1972	1.9	1.8	2.8	4.4	1.8	2.7	1.0	1.0	1.2	3.0	4.2	2.3	
1973	3.5	4.5	3.8	7.8	3.4	2.5	1.7	2.1	1.9	4.3	3.8	4.4	
1974	4.8	4.2	4.3	3.6	5.0	3.3	2.8	1.7	2.1	2.2	2.7	3.5	
1975	3.1	3.3	4.3	4.3	3.1	1.4	1.5	3.6	3.8	5.3	3.0	4.4	
1976	3.0	2.8	5.3	6.4	2.5	4.3	4.0	3.0	2.4	2.2	1.7	2.6	
1977	5.9	3.7	3.9	2.9	4.1	3.4	1.7	1.7	2.7	5.1	1.2	6.5	
1978	5.8	2.7	4.1	3.3	3.7	1.7	1.7	2.2	4.0	3.3	1.1	2.2	
1979	3.3	3.6	2.2	3.9	5.0	2.4	2.3	2.1	1.6	3.3	2.7	5.0	
1980	3.3	3.3	4.6	5.6	3.1	2.6	1.1	1.7	1.9	2.2	2.8	3.8	
1981	2.0	2.0	2.5	3.7	4.1	1.8	2.3	2.0	3.9	4.7	2.2	2.2	
1982	4.2	4.4	2.5	4.0	2.8	1.6	1.6	2.1	2.8	1.8	2.2	1.9	
1983	4.5	5.5	5.9	4.3	2.8	3.1	1.5	4.5	2.0	2.4	3.8	2.4	
1984	1.9	5.4	4.8	4.0	4.4	2.5	1.4	1.5	1.4	1.6	2.9	2.9	
1985	6.8	2.0	5.9	2.5	3.3	2.0	1.4	1.8	2.2	1.8	3.5	2.0	
1986	2.9	3.7	3.7	2.8	3.5	2.3	1.4	1.7	1.6	1.6	2.7	2.8	
1987	4.3	3.9	4.7	3.2	2.3	1.8	1.5	1.9	2.3	1.5	2.6	3.0	

32 YR. STATISTICS FOR WIS STATION H11

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	0.8
MEAN PEAK WAVE PERIOD (SECONDS)	3.6
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	202.5
STANDARD DEVIATION OF WAVE HS (METERS)	0.6
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.3
LARGEST WAVE HS (METERS)	9.3
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	48.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	60021018

STATION H12 44.18N 83.32W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	610	735	335	111	16	1	1	.	.	.	1809
0.50-0.99	.	1684	284	433	342	82	4	.	.	.	2829
1.00-1.49	.	.	356	19	161	194	93	.	1	.	824
1.50-1.99	.	.	125	24	9	67	145	9	1	.	380
2.00-2.49	.	.	.	24	1	2	29	25	6	.	87
2.50-2.99	.	.	.	5	2	1	2	9	4	.	23
3.00-3.49	1	.	.	1	.	.	2
3.50-3.99	0
4.00-4.49	1	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	610	2419	1100	616	532	347	275	44	12	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 4.4 MEAN TP(SEC)= 4.1 NO. OF CASES= 5581.

STATION H12 44.18N 83.32W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	305	494	131	27	3	.	.	.	.	.	960
0.50-0.99	.	574	427	202	63	2	.	.	.	.	1268
1.00-1.49	.	.	130	66	99	21	1	.	.	.	317
1.50-1.99	.	.	10	62	57	42	7	.	.	.	178
2.00-2.49	.	.	.	9	41	20	13	.	.	.	83
2.50-2.99	21	23	9	.	.	.	53
3.00-3.49	12	18	.	.	.	30
3.50-3.99	1	19	1	.	.	21
4.00-4.49	6	14	.	.	20
4.50-4.99	9	.	.	9
5.00-5.49	4	.	4
5.50-5.99	4	.	4
6.00-6.49	3	.	3
6.50-6.99	2	2
7.00+	1	1
TOTAL	305	1068	698	366	284	121	73	24	11	3	

MEAN HS(M) = 0.9 LARGEST HS(M)= 7.1 MEAN TP(SEC)= 4.1 NO. OF CASES= 2777.

STATION H12 44.18N 83.32W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	426	637	194	40	5	.	1	.	.	.	1303
0.50-0.99	.	801	907	350	60	2	.	.	.	.	2120
1.00-1.49	.	.	358	258	168	22	1	.	.	.	807
1.50-1.99	.	.	32	270	198	64	10	.	.	.	574
2.00-2.49	.	.	.	23	192	88	27	.	.	.	330
2.50-2.99	72	121	40	1	.	.	234
3.00-3.49	6	71	72	.	.	.	149
3.50-3.99	16	142	1	.	.	159
4.00-4.49	1	58	24	.	.	83
4.50-4.99	9	49	.	.	58
5.00-5.49	2	20	8	.	30
5.50-5.99	5	14	.	19
6.00-6.49	2	13	.	15
6.50-6.99	10	7	17
7.00+	25	18
TOTAL	426	1438	1491	941	701	385	362	102	45	18	

MEAN HS(M) = 1.3 LARGEST HS(M)= 9.3 MEAN TP(SEC)= 4.6 NO. OF CASES= 5555.

STATION H12 44.18N 83.32W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	313	491	114	29	2	.	.	.	.	.	949
0.50-0.99	.	534	1084	264	14	.	.	.	.	.	1896
1.00-1.49	.	.	268	390	139	6	.	.	.	.	803
1.50-1.99	.	.	1	220	162	33	3	.	.	.	419
2.00-2.49	.	.	.	8	131	49	9	.	.	.	197
2.50-2.99	31	85	16	.	.	.	132
3.00-3.49	73	40	3	.	.	116
3.50-3.99	10	68	1	.	.	79
4.00-4.49	1	66	5	.	.	72
4.50-4.99	21	14	.	.	35
5.00-5.49	2	18	1	.	21
5.50-5.99	8	4	.	12
6.00-6.49	2	2	.	4
6.50-6.99	3	1	4
7.00+	3	3
TOTAL	313	1025	1467	911	479	257	225	51	10	4	

MEAN HS(M) = 1.1 LARGEST HS(M)= 7.3 MEAN TP(SEC)= 4.5 NO. OF CASES= 4450.

STATION H12 44.18N 83.32W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	420	751	110	20	4	.	.	.	.	.	1305
0.50-0.99	.	518	1419	243	9	.	.	.	.	.	2189
1.00-1.49	.	.	235	418	95	1	.	.	.	.	749
1.50-1.99	.	.	3	198	201	33	.	.	.	.	435
2.00-2.49	.	.	.	4	131	58	3	.	.	.	196
2.50-2.99	27	62	29	.	.	.	98
3.00-3.49	52	22	.	.	.	74
3.50-3.99	7	28	.	.	.	35
4.00-4.49	37	.	.	.	41
4.50-4.99	11	6	1	.	18
5.00-5.49	7	.	.	7
5.50-5.99	1	7	1	.	9
6.00-6.49	2	.	2
6.50-6.99	1	.	1
7.00+	0
TOTAL	420	1269	1767	883	467	213	111	24	5	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 6.7 MEAN TP(SEC)= 4.2 NO. OF CASES= 4838.

STATION H12 44.18N 83.32W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	374	572	89	22	3	.	.	.	.	.	1057
0.50-0.99	.	436	974	202	3	.	.	.	.	.	1615
1.00-1.49	.	.	198	224	67	1	.	.	.	.	480
1.50-1.99	.	.	.	83	70	22	1	.	.	.	176
2.00-2.49	.	.	.	7	36	21	5	.	.	.	69
2.50-2.99	1	22	6	.	.	.	29
3.00-3.49	6	4	1	.	.	11
3.50-3.99	5	.	.	.	5
4.00-4.49	1	.	.	1
4.50-4.99	1
5.00-5.49	1	.	.	1
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	374	1008	1261	538	177	72	27	3	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 5.0 MEAN TP(SEC)= 3.9 NO. OF CASES= 3245.

STATION H12 44.18N 83.32W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	517	781	148	78	36	2	.	.	.	.	1562
0.50-0.99	.	718	1303	148	43	9	2	.	.	.	2223
1.00-1.49	.	.	425	176	65	4	1	.	.	.	671
1.50-1.99	.	.	3	133	23	11	1	.	.	.	171
2.00-2.49	.	.	.	14	34	12	2	.	.	.	62
2.50-2.99	3	7	4	.	.	.	14
3.00-3.49	4	.	1	.	.	.	5
3.50-3.99	1	.	.	.	1
4.00-4.49	1	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	517	1499	1879	549	208	45	13	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 4.4 MEAN TP(SEC)= 3.7 NO. OF CASES= 4417.

STATION H12 44.18N 83.32W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	802	1181	120	79	36	5	.	.	.	.	2223
0.50-0.99	.	1358	1066	116	22	3	3	.	.	.	2568
1.00-1.49	.	.	591	85	36	2	1	.	.	.	714
1.50-1.99	.	.	5	186	8	4	1	.	.	.	205
2.00-2.49	.	.	.	16	20	2	3	.	.	.	41
2.50-2.99	8	1	.	.	.	.	9
3.00-3.49	3	.	.	.	.	.	3
3.50-3.99	1	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	802	2539	1782	482	133	18	8	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.7 MEAN TP(SEC)= 3.4 NO. OF CASES= 5398.

STATION H12 44.18N 83.32W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1210	1635	127	36	4	.	.	.	.	.	3012
0.50-0.99	.	2377	1578	71	13	3	.	.	.	.	4042
1.00-1.49	.	.	1452	260	11	1	.	.	.	.	1724
1.50-1.99	.	.	8	837	12	3	.	.	.	.	850
2.00-2.49	.	.	.	114	116	.	.	.	.	.	230
2.50-2.99	51	.	1	.	.	.	12
3.00-3.49	11	.	.	1	.	.	13
3.50-3.99	5	.	.	.	.	5
4.00-4.49	1	1	.	.	.	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1210	4012	3165	1318	208	14	2	1	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.2 MEAN TP(SEC)= 3.5 NO. OF CASES= 9295.

STATION H12 44.18N 83.32W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1206	1319	106	47	3	1	.	.	.	.	2682
0.50-0.99	.	2725	1325	48	8	1	.	.	.	.	4107
1.00-1.49	.	.	1215	149	9	1	.	.	.	.	1374
1.50-1.99	.	.	43	837	1	.	.	.	.	.	881
2.00-2.49	.	.	.	116	93	.	.	.	.	.	209
2.50-2.99	51	.	.	.	.	.	51
3.00-3.49	18	1	.	.	.	.	19
3.50-3.99	2	.	.	.	.	3
4.00-4.49	3	.	.	.	.	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1206	4044	2689	1197	184	9	0	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.4 MEAN TP(SEC)= 3.5 NO. OF CASES= 8731.

STATION H12 44.18N 83.32W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1533	1109	125	74	11	1	1	.	.	.	2854
0.50-0.99	.	2731	1069	29	8	.	.	.	.	.	3837
1.00-1.49	.	.	1118	2	.	.	.	.	.	.	1120
1.50-1.99	.	.	19	606	14	.	.	.	.	.	625
2.00-2.49	.	.	.	99	38	.	.	.	.	.	113
2.50-2.99	11	.	.	.	.	.	38
3.00-3.49	1	5	.	.	.	.	11
3.50-3.99	1	.	.	.	.	6
4.00-4.49	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1533	3840	2331	808	85	7	1	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 4.1 MEAN TP(SEC)= 3.3 NO. OF CASES= 8055.

STATION H12 44.18N 83.32W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1319	916	131	73	19	6	.	.	.	.	2464
0.50-0.99	.	2017	471	29	3	1	.	.	.	.	2521
1.00-1.49	.	.	666	1	.	.	.	.	.	.	667
1.50-1.99	.	.	115	179	.	.	.	.	.	.	294
2.00-2.49	.	.	.	45	3	.	.	.	.	.	48
2.50-2.99	.	.	.	1	19	.	.	.	.	.	20
3.00-3.49	1	.	.	.	.	.	1
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1319	2933	1383	328	45	7	0	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.1 MEAN TP(SEC)= 3.1 NO. OF CASES= 5632.

STATION H12 44.18N 83.32W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1374	977	158	139	44	13	2	.	.	.	2707
0.50-0.99	.	2523	491	42	12	1	.	.	.	.	3069
1.00-1.49	.	.	955	1	2	.	.	.	.	.	958
1.50-1.99	.	.	226	217	.	.	.	.	.	.	443
2.00-2.49	.	.	.	39	.	1	.	.	.	.	40
2.50-2.99	.	.	.	2	.	.	.	.	.	.	11
3.00-3.49	2	.	.	.	.	.	2
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1374	3500	1830	440	69	15	2	0	0	0	
MEAN HS(M) = 0.7 LARGEST HS(M)= 3.2 MEAN TP(SEC)= 3.2 NO. OF CASES= 6769.											

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.2 MEAN TP(SEC)= 3.2 NO. OF CASES= 6769.

STATION H12 44.18N 83.32W AZIMUTH(DEGREES) -292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	965	963	143	122	38	5	2	.	.	.	2238
0.50-0.99	.	2204	573	42	17	4	.	.	.	.	2840
1.00-1.49	.	.	773	1	4	.	.	.	.	.	778
1.50-1.99	.	.	101	288	.	.	.	.	.	.	389
2.00-2.49	.	.	.	51	7	.	.	.	.	.	58
2.50-2.99	.	.	.	3	14	.	.	.	.	.	17
3.00-3.49	3	.	.	.	.	.	3
3.50-3.99	0
4.00-4.49	1	.	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	965	3167	1590	507	83	10	2	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 4.2 MEAN TP(SEC)= 3.3 NO. OF CASES= 5922.

STATION H12 44.18N 83.32W AZIMUTH(DEGREES) -315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	861	735	189	155	42	3	1	.	.	.	1986
0.50-0.99	.	2229	1192	67	62	24	6	.	.	.	3580
1.00-1.49	.	.	1042	3	3	2	2	.	.	.	1052
1.50-1.99	.	.	50	797	1	.	3	.	.	.	851
2.00-2.49	.	.	.	145	18	.	.	.	.	.	163
2.50-2.99	31	.	.	.	.	.	31
3.00-3.49	8	.	.	.	.	.	8
3.50-3.99	1	.	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00-7.99	0
TOTAL	861	2964	2473	1167	166	24	12	0	0	0	0

MEAN HS(M) = 0.8 LARGEST HS(M)= 3.5 MEAN TP(SEC)= 3.6 NO. OF CASES= 7183.

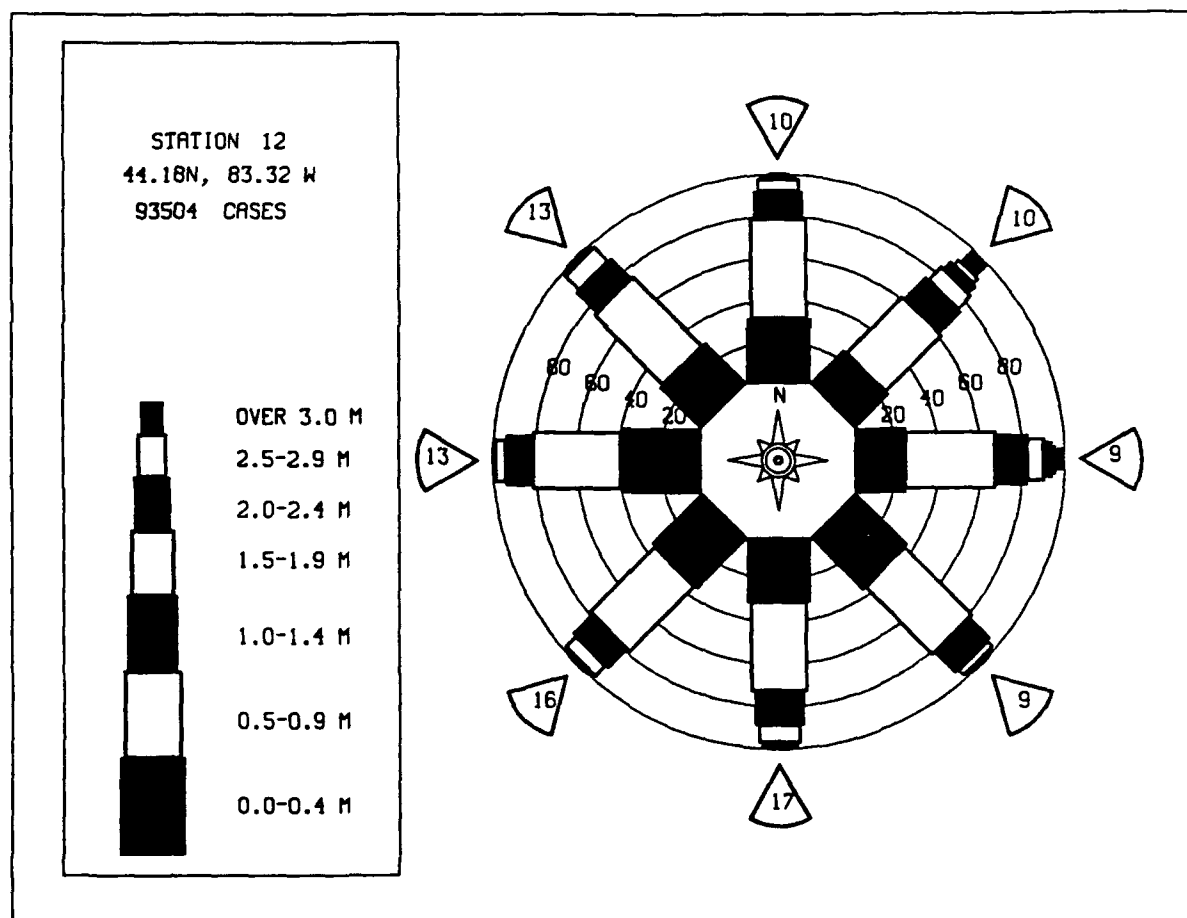
STATION H12 44.18N 83.32W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	607	662	240	168	31	2	1	.	.	.	1711
0.50-0.99	.	1830	524	203	234	87	17	.	.	.	2992
1.00-1.49	.	.	691	9	34	72	51	3	.	.	862
1.50-1.99	.	.	116	240	1	10	23	3	.	.	395
2.00-2.49	.	.	.	44	6	.	1	6	2	.	58
2.50-2.99	.	.	.	3	3	.	.	1	1	.	8
3.00-3.49	6	.	.	.	.	.	6
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	607	2592	1571	667	315	171	93	17	3	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.1 MEAN TP(SEC)= 3.8 NO. OF CASES= 5656

STATION H12 44.18N 83.32W FOR ALL DIRECTIONS											
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1285	1396	246	122	29	4	3	.	.	.	3082
0.50-0.99	.	2536	1469	249	92	22	3	.	.	.	4371
1.00-1.49	.	.	1048	206	90	33	14	.	.	.	1391
1.50-1.99	.	.	86	518	73	29	19	1	.	.	726
2.00-2.49	.	.	.	76	84	25	9	3	.	.	197
2.50-2.99	.	.	.	1	38	22	8	1	.	.	80
3.00-3.49	7	21	15	.	.	.	43
3.50-3.99	4	26	.	.	.	30
4.00-4.49	17	4	.	.	21
4.50-4.99	4	8	.	.	12
5.00-5.49	2	1	.	5
5.50-5.99	4
6.00-6.49	2
6.50-6.99	2
7.00+	2
TOTAL	1285	3932	2849	1172	413	170	115	23	6	3	

MEAN HS(M)= 0.8 LARGEST HS(M)= 9.3 MEAN TP(SEC)= 3.7 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H12 (44.18N 83.32W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.7	0.6	0.7	0.7	0.7	0.6	0.5	0.4	0.5	0.7	0.6	0.5	0.6
1957	0.5	0.5	0.6	0.6	0.7	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1958	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1959	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1960	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1961	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1962	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1963	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1964	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1965	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1966	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1967	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1968	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1969	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1970	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1971	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1972	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1973	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1974	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1975	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1976	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1977	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1978	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1979	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1980	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1981	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1982	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1983	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1984	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1985	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1986	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
1987	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.6
MEAN	0.9	0.9	0.9	1.0	0.8	0.7	0.6	0.6	0.7	0.8	0.8	0.9	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H12 (44.18N 83.32W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1957	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1958	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1959	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1960	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1961	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1962	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1963	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1964	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1965	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1966	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1967	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1968	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1969	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1970	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1971	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1972	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1973	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1974	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1975	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1976	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1977	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1978	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1979	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1980	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1981	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1982	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1983	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1984	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1985	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1986	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	
1987	3.3	2.3	5.0	2.3	2.7	2.2	1.7	1.3	1.6	3.2	2.8	1.5	

32 YR. STATISTICS FOR WIS STATION H12

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.8
MEAN PEAK WAVE PERIOD	(SECONDS)	3.7
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	180.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.6
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.2
LARGEST WAVE HS	(METERS)	9.3
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	12.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	54.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		60021018

STATION H13 44.33N 83.12W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	245	515	164	45	10	2	1	.	.	.	982
0.50-0.99	.	560	1207	472	64	10	.	.	.	.	2313
1.00-1.49	.	.	312	652	322	23	2	.	.	.	1311
1.50-1.99	.	.	5	399	428	154	3	.	.	.	989
2.00-2.49	.	.	.	20	315	166	32	.	.	.	533
2.50-2.99	83	176	58	.	.	.	317
3.00-3.49	135	60	1	.	.	196
3.50-3.99	12	139	3	.	.	154
4.00-4.49	70	2	.	.	72
4.50-4.99	26	18	.	.	44
5.00-5.49	2	21	.	.	23
5.50-5.99	6	1	.	7
6.00-6.49	2	3	.	5
6.50-6.99	3	.	3
7.00+	1	2	3
TOTAL	245	1075	1688	1588	1222	678	393	53	8	2	6520.

MEAN HS(M) = 1.3 LARGEST HS(M)= 8.2 MEAN TP(SEC)= 4.9 NO. OF CASES= 6520.

STATION H13 44.33N 83.12W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	151	301	82	19	5	1	.	.	.	.	559
0.50-0.99	.	418	779	247	28	3	.	.	.	.	1475
1.00-1.49	.	.	198	310	165	4	1	.	.	.	678
1.50-1.99	.	.	2	198	159	54	.	.	.	.	413
2.00-2.49	.	.	.	6	121	69	12	.	.	.	208
2.50-2.99	29	90	19	.	.	.	138
3.00-3.49	1	48	24	2	.	.	75
3.50-3.99	4	69	.	.	.	73
4.00-4.49	48	2	.	.	50
4.50-4.99	8	7	.	.	15
5.00-5.49	10	.	.	10
5.50-5.99	3	1	.	4
6.00-6.49	4	.	4
6.50-6.99	0
7.00+	0
TOTAL	151	719	1061	780	508	273	181	24	5	0	3478.

MEAN HS(M) = 1.2 LARGEST HS(M)= 6.4 MEAN TP(SEC)= 4.7 NO. OF CASES= 3478.

STATION H13 44.33N 83.12W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	209	531	113	21	8	.	.	.	.	.	882
0.50-0.99	.	482	1082	397	24	4	.	.	.	.	1989
1.00-1.49	.	.	259	811	167	3	.	.	.	.	1040
1.50-1.99	.	.	4	339	286	47	.	.	.	.	676
2.00-2.49	.	.	.	6	284	99	6	.	.	.	395
2.50-2.99	63	214	22	.	.	.	299
3.00-3.49	209	82	.	.	.	291
3.50-3.99	11	180	1	.	.	192
4.00-4.49	111	.	.	.	111
4.50-4.99	49	11	.	.	60
5.00-5.49	5	23	.	.	28
5.50-5.99	18	1	.	19
6.00-6.49	7	10	.	17
6.50-6.99	14	.	14
7.00+	11	2	13
TOTAL	209	1013	1458	1374	832	587	455	60	36	2	5653.

MEAN HS(M) = 1.4 LARGEST HS(M)= 8.6 MEAN TP(SEC)= 5.0 NO. OF CASES= 5653.

STATION H13 44.33N 83.12W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	168	449	83	12	2	1	.	.	.	.	715
0.50-0.99	.	410	1056	296	14	.	.	.	.	.	1776
1.00-1.49	.	.	209	482	129	2	.	.	.	.	822
1.50-1.99	.	.	1	238	193	22	.	.	.	.	454
2.00-2.49	.	.	.	5	134	39	5	.	.	.	183
2.50-2.99	26	88	12	.	.	.	126
3.00-3.49	91	19	2	.	.	112
3.50-3.99	7	71	2	.	.	80
4.00-4.49	50	1	.	.	51
4.50-4.99	23	3	1	.	27
5.00-5.49	2	17	.	.	19
5.50-5.99	4	.	.	4
6.00-6.49	1	.	.	1
6.50-6.99	1	.	1
7.00+	1	.	1
TOTAL	168	859	1349	1033	498	250	182	30	3	0	4104.

MEAN HS(M) = 1.2 LARGEST HS(M)= 7.3 MEAN TP(SEC)= 4.6 NO. OF CASES= 4104.

STATION H13 44.33N 83.12W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	251	595	106	20	6						978
0.50-0.99		496	1273	299	22	5					2095
1.00-1.49			227	448	83	4					762
1.50-1.99			1	196	185	25					407
2.00-2.49				3	115	49	5				172
2.50-2.99					26	58	8				92
3.00-3.49						62	19				81
3.50-3.99						5	36				41
4.00-4.49							24				25
4.50-4.99							7	1			10
5.00-5.49							1	7			8
5.50-5.99											0
6.00-6.49								1			2
6.50-6.99									1		1
7.00+											0
TOTAL	251	1091	1607	966	437	208	100	12	2	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 6.7 MEAN TP(SEC)= 4.3 NO. OF CASES= 4384.

STATION H13 44.33N 83.12W AZIMUTH(DEGREES) = 112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	228	497	99	19	3						846
0.50-0.99		393	973	231	20	1					1618
1.00-1.49			157	279	73	3					512
1.50-1.99			2	85	84	17					188
2.00-2.49				1	37	29	3				70
2.50-2.99					7	35	6				48
3.00-3.49						10	2				12
3.50-3.99							7				7
4.00-4.49							6				6
4.50-4.99							1				1
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	228	890	1231	615	224	95	25	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.7 MEAN TP(SEC)= 4.0 NO. OF CASES= 3103.

STATION H13 44.33N 83.12W AZIMUTH(DEGREES) = 135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	320	697	226	80	11						1334
0.50-0.99		555	1240	368	71	6	1				2241
1.00-1.49			198	305	116	12	1				632
1.50-1.99				127	101	11	1				240
2.00-2.49				2	51	17	1				71
2.50-2.99					7	36	4				47
3.00-3.49						8	5				13
3.50-3.99							5				5
4.00-4.49							3				3
4.50-4.99							3	1			4
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	320	1252	1664	882	357	90	24	1	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.6 MEAN TP(SEC)= 4.0 NO. OF CASES= 4305.

STATION H13 44.33N 83.12W AZIMUTH(DEGREES) = 157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	485	1120	300	272	102	7					2286
0.50-0.99		784	1654	237	142	39	1				2857
1.00-1.49			513	339	70	14	1				937
1.50-1.99			4	257	37	11	2	1			312
2.00-2.49				13	65	6	1	1			86
2.50-2.99					22	13	2	1			38
3.00-3.49					1	18	2				22
3.50-3.99						3	2				5
4.00-4.49							3				3
4.50-4.99											0
5.00-5.49								1			1
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	485	1904	2471	1118	439	111	15	4	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 5.0 MEAN TP(SEC)= 3.9 NO. OF CASES= 6136.

STATION H13 44.33N 83.12W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-11.9	
0.00-0.49	767	1536	243	66	17	4	1	.	.	.	2634
0.50-0.99	.	1056	2472	147	33	8	3	.	.	.	3719
1.00-1.49	.	.	1159	820	21	9	1	.	.	.	2010
1.50-1.99	.	.	5	1033	37	4	.	.	.	.	1079
2.00-2.49	.	.	.	38	487	.	.	.	.	.	525
2.50-2.99	175	.	.	.	.	.	175
3.00-3.49	9	45	.	1	.	.	55
3.50-3.99	10	.	.	.	.	10
4.00-4.49	3	1	.	.	.	4
4.50-4.99	3	.	.	.	3
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	767	2592	3879	2104	779	83	9	1	0	0	
MEAN HS(M) = 0.9	LARGEST HS(M) = 4.8		MEAN TP(SEC) = 4.0		NO. OF CASES = 9563.						

STATION H13 44.33N 83.12W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	686	1251	289	73	26	7					2332
0.50-0.99	.	984	2444	124	19	8	1	.	.	.	3580
1.00-1.49	.	.	1182	730	21	3	1	.	.	.	1937
1.50-1.99	.	.	3	1057	97	2		.	.	.	1159
2.00-2.49	.	.	.	22	612	2	.	.	.	.	63F
2.50-2.99	210	28	.	.	.	.	23F
3.00-3.49	3	57	.	.	.	.	60
3.50-3.99	21	.	.	.	.	21
4.00-4.49	8	.	.	.	.	16
4.50-4.99	8	.	.	.	12
5.00-5.49	12	.	.	.	2
5.50-5.99	2	.	.	.	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	686	2235	3918	2006	988	136	24	0	0	0	
MEAN HS(M) = 1.0	LARGEST HS(M)=	5.3	MEAN TP(SEC)=	4.1	NO. OF CASES=	9359.					

STATION H13 44.33N 83.12W AZIMUTH(DEGREES) -225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	787	1075	271	134	69	12	1				2350
0.50-0.99	.	1311	1791	141	37	17	1	1	.	.	3298
1.00-1.49	.	.	1020	564	9	5	3	.	.	.	1601
1.50-1.99	.	.	12	965	9	.	.	.	.	.	986
2.00-2.49	.	.	.	28	483	.	.	.	.	.	511
2.50-2.99	181	.	.	.	.	.	181
3.00-3.49	7	.	.	.	.	.	73
3.50-3.99	66	.	.	.	.	73
4.00-4.49	32	.	.	.	.	32
4.50-4.99	14	.	.	.	.	17
5.00-5.49	3	.	.	.	1
5.50-5.99	1	.	.	.	6
6.00-6.49	6	.	.	.	6
6.50-6.99	0
7.00+	0
TOTAL	787	2386	3094	1832	795	146	15	1	0	0	
MEAN HS (M) = 0.9	LARGEST HS (M) = 5.4		MEAN TP (SEC) = 4.0		NO. OF CASES = 8481.						

STATION H13 44.33N 83.12W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	577	875	232	139	87	16	2				1928
0.50-0.99		1529	552	158	95	48	11	1			2394
1.00-1.49			612	97	13	10	7				739
1.50-1.99			168	311	11	1					491
2.00-2.49				60	117	2					179
2.50-2.99				3	56						59
3.00-3.49					3	8					11
3.50-3.99						6					6
4.00-4.49						3	2				5
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	577	2404	1564	768	382	94	22	1	0	0	
MEAN HS(M) = 0.8	LARGEST HS(M)= 4.3		MEAN TP(SEC)= 3.7		NO. OF CASES= 5448.						

STATION H13 44.33N 83.12W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	510	902	254	190	105	31	4				1996
0.50-0.99		1731	479	265	241	121	34	1			2872
1.00-1.49			656	18	44	62	27	1			808
1.50-1.99			180	172	1	12	7				372
2.00-2.49				28							28
2.50-2.99				1	8	1					10
3.00-3.49					2						2
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	510	2633	1568	674	401	227	72	2	0	0	
MEAN HS (M) = 0.7	LARGEST HS (M) = 3.2		MEAN TP (SEC) = 3.8		NO. OF CASES = 5704.						

STATION H13 44.33N 83.12W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	383	669	181	106	63	13	1	.	.	.	1416
0.50-0.99	.	1552	637	262	235	113	8	.	.	.	2807
1.00-1.49	.	.	645	49	109	102	25	1	.	.	931
1.50-1.99	.	.	140	257	10	25	35	.	.	.	467
2.00-2.49	.	.	.	68	5	10	13	.	.	.	96
2.50-2.99	.	.	.	5	11	1	2	.	.	.	19
3.00-3.49	8	.	.	2	1	.	11
3.50-3.99	1	.	.	.	.	1
4.00-4.49	1	.	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	383	2221	1603	747	441	266	84	3	1	0	
MEAN HS(M) = 0.8	LARGEST HS(M) = 4.2		MEAN TP(SEC) = 4.0		NO. OF CASES = 5391.						

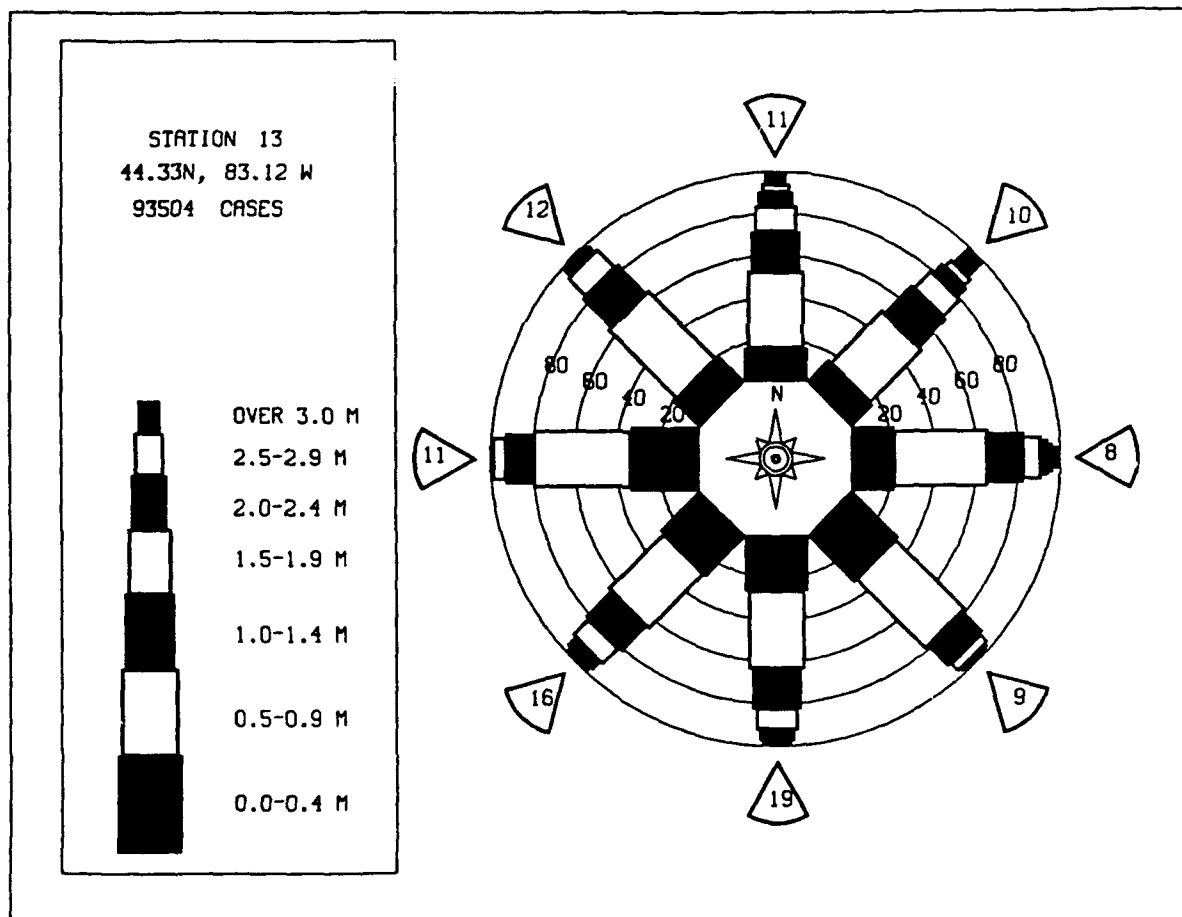
STATION H13 44.33N 83.12W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	309	565	199	111	43	10					1237
0.50-0.99		1495	940	433	216	69	8	1	.	.	3162
1.00-1.49	.	.	780	91	213	157	28		.	.	1269
1.50-1.99	.	.	108	553	58	96	35	1	.	.	851
2.00-2.49	.	.	.	164	29	39	29	1	.	.	262
2.50-2.99	.	.	.	6	31	13	13	4	.	.	67
3.00-3.49	.	.	.	.	7		5	1	.	.	13
3.50-3.99	.	.	.	.	1	.	1	2	.	.	4
4.00-4.49	.	.	.	.	.	.	.	.	.	.	0
4.50-4.99	.	.	.	.	.	.	.	.	.	.	0
5.00-5.49	.	.	.	.	.	.	.	1	.	.	1
5.50-5.99	.	.	.	.	.	.	.	.	.	.	0
6.00-6.49	.	.	.	.	.	.	.	.	.	.	0
6.50-6.99	.	.	.	.	.	.	.	.	.	.	0
7.00+	.	.	.	.	.	.	.	.	.	.	0
TOTAL	309	2060	2027	1358	598	384	119	11	0	0	
MEAN HS(M) = 0.9	LARGEST HS(M) = 5.1		MEAN TP(SEC) = 4.2		NO. OF CASES = 6437.						

STATION H13 44.33N 83.12W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	219	403	143	67	18	5					855
0.50-0.99		843	998	447	117	27	3				2435
1.00-1.49			493	333	268	82	11				1207
1.50-1.99			41	437	117	97	11				703
2.00-2.49				62	190	59	27				340
2.50-2.99				2	85	37	21				145
3.00-3.49					4	32	11	1			48
3.50-3.99						8	25	1			33
4.00-4.49							13	1			14
4.50-4.99								3			8
5.00-5.49											1
5.50-5.99									1		2
6.00-6.49									2		2
6.50-6.99											0
7.00+											0
TOTAL	219	1246	1675	1348	819	347	132	8	3	0	
MEAN HS(M) = 1.1	LARGEST HS(M)=		6.4	MEAN TP(SEC)=		4.5	NO. OF CASES=		5438.		

STATION H13 44.33N 83.12W FOR ALL DIRECTIONS											
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	630	1198	299	138	58	11	1	.	.	.	2335
0.50-0.99	.	1460	1958	452	138	48	7	.	.	.	4063
1.00-1.49	.	.	862	613	185	50	11	.	.	.	1721
1.50-1.99	.	.	68	663	182	58	9	.	.	.	980
2.00-2.49	.	.	.	53	305	79	13	.	.	.	430
2.50-2.99	.	.	.	1	102	17	17	.	.	.	199
3.00-3.49	4	79	23	1	.	.	107
3.50-3.99	12	53	.	.	.	65
4.00-4.49	3	34	.	.	.	37
4.50-4.99	14	4	.	.	18
5.00-5.49	2	8	.	.	10
5.50-5.99	3	.	.	3
6.00-6.49	1	2	.	3
6.50-6.99	2	.	2
7.00+	1	.	1
TOTAL	630	2658	3187	1920	974	399	184	17	5	0	
MEAN HS(M)= 1.0	LARGEST HS(M)= 8.6 MEAN TP(SEC)= 4.2 TOTAL CASES= 93504.										



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H13 (44.33N 83.12W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	1.0	0.7	0.9	0.8	0.8	0.7	0.5	0.5	0.6	0.8	0.7	0.7	0.7
1957	0.7	0.7	0.8	0.8	0.8	0.7	0.6	0.6	0.6	0.8	0.8	0.8	0.7
1958	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1959	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1960	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1961	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1962	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1963	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1964	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1965	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1966	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1967	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1968	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1969	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1970	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1971	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1972	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1973	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1974	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1975	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1976	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1977	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1978	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1979	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1980	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1981	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1982	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1983	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1984	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1985	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1986	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1987	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
MEAN	1.1	1.1	1.1	1.2	1.0	0.8	0.7	0.7	0.8	0.9	1.0	1.1	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H13 (44.33N 83.12W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.8	2.2	5.0	3.0	2.7	2.1	1.9	1.7	2.0	3.3	2.3	2.0	
1957	3.3	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1958	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1959	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1960	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1961	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1962	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1963	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1964	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1965	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1966	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1967	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1968	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1969	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1970	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1971	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1972	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1973	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1974	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1975	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1976	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1977	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1978	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1979	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1980	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1981	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1982	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1983	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1984	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1985	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1986	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
1987	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	

32 YR. STATISTICS FOR WIS STATION H13

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	1.0
MEAN PEAK WAVE PERIOD	(SECONDS)	4.2
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	180.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.7
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.3
LARGEST WAVE HS	(METERS)	8.6
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	48.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		60021018

STATION H14 44.48N 83.12W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	227	505	140	36	9	2	.	.	.	.	919
0.50-0.99	.	575	1174	417	51	7	.	.	.	.	2224
1.00-1.49	.	.	409	612	282	19	1	.	.	.	1323
1.50-1.99	.	.	2	410	360	135	12	.	.	.	909
2.00-2.49	.	.	.	22	316	155	13	.	.	.	506
2.50-2.99	97	150	34	.	.	.	281
3.00-3.49	148	52	.	.	.	200
3.50-3.99	18	112	1	.	.	131
4.00-4.49	53	.	.	.	53
4.50-4.99	20	.	.	.	30
5.00-5.49	3	14	.	.	17
5.50-5.99	4	.	.	4
6.00-6.49	1	2	.	3
6.50-6.99	2	.	2
7.00+	3	.	3
TOTAL	227	1080	1725	1497	1115	634	290	30	7	0	6192
MEAN HS(M) = 1.3	LARGEST HS(M) = 7.8		MEAN TP(SEC) = 4.8		NO. OF CASES =		6192.				

STATION H14 44.48N 83.12W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	144	315	69	9	7						544
0.50-0.99	.	421	765	243	19	4	.	.	.	.	1452
1.00-1.49	.	.	223	331	132	5	1	.	.	.	692
1.50-1.99	.	.	4	199	174	39	.	.	.	.	416
2.00-2.49	.	.	.	5	144	64	9	.	.	.	222
2.50-2.99	34	87	13	.	.	.	134
3.00-3.49	2	60	26	1	.	.	89
3.50-3.99	6	60	.	.	.	66
4.00-4.49	48	.	.	.	49
4.50-4.99	9	.	.	.	17
5.00-5.49	6	.	.	6
5.50-5.99	6	.	.	5
6.00-6.49	1	1	.	2
6.50-6.99	0
7.00+	0
TOTAL	144	736	1061	787	512	265	166	22	1	0	
MEAN HS(M) = 1.2	LARGEST HS(M)=		6.2	MEAN TP(SEC)=		4.6	NO. OF CASES=		3471.		

STATION R14 44.48N 83.12W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49											835
0.50-0.99	207	514	80	17	7						1932
1.00-1.49		499	1064	342	26	1	.	.	.	.	1072
1.50-1.99	.	.	317	611	142	2	.	.	.	.	676
2.00-2.49	.	.	5	355	284	32	.	.	.	.	376
2.50-2.99	.	.	.	9	296	69	2	.	.	.	314
3.00-3.49	.	.	.	.	82	211	21	.	.	.	269
3.50-3.99	.	.	.	.	.	220	49	.	.	.	194
4.00-4.49	.	.	.	.	.	20	173	1	.	.	106
4.50-4.99	.	.	.	.	.	.	104	2	.	.	40
5.00-5.49	.	.	.	.	.	.	32	8	.	.	30
5.50-5.99	.	.	.	.	.	.	7	22	1	.	19
6.00-6.49	.	.	.	.	.	.	.	18	5	.	13
6.50-6.99	.	.	.	.	.	.	.	8	5	.	17
7.00+	.	.	.	.	.	.	.	.	17	2	10
TOTAL	207	1013	1476	1334	837	555	388	59	32	2	
MEAN HS(M) = 1.4	LARGEST HS(M)=		8.6	MEAN TP(SEC)=		4.9	NO. OF CASES=		5534.		

STATION H14 44.48N 83.12W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49											670
0.50-0.99	165	424	69	9	2	1	.	.	.	.	1770
1.00-1.49	.	451	1051	256	12	.	.	.	.	.	887
1.50-1.99	.	.	270	501	115	1	.	.	.	.	482
2.00-2.49	.	.	2	270	187	23	.	.	.	.	194
2.50-2.99	.	.	.	7	141	41	.	.	.	.	143
3.00-3.49	.	.	.	.	37	95	11	.	.	.	104
3.50-3.99	.	.	.	.	.	81	19	.	.	.	105
4.00-4.49	.	.	.	.	.	12	91	2	.	.	55
4.50-4.99	.	.	.	.	.	.	54	1	.	.	33
5.00-5.49	.	.	.	.	.	.	27	5	1	.	12
5.50-5.99	.	.	.	.	.	.	3	6	.	.	7
6.00-6.49	.	.	.	.	.	.	.	4	1	.	5
6.50-6.99	.	.	.	.	.	.	.	.	1	.	0
7.00+	.	.	.	.	.	.	.	.	.	.	1
TOTAL	165	875	1392	1043	494	254	210	31	4	0	4194
MEAN HS (M) = 1.2	LARGEST HS (M) = 7.2		MEAN TP (SEC) = 4.6		NO. OF CASES =						

STATION H14 44.48N 83.12W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	229	536	72	13	7						857
0.50-0.99		506	1264	270	16	3					2059
1.00-1.49			276	467	81	4					828
1.50-1.99			2	208	177	29					416
2.00-2.49				4	102	63	2				171
2.50-2.99					28	54	14				96
3.00-3.49						56	19				75
3.50-3.99						7	43				50
4.00-4.49							28	2			30
4.50-4.99							7	1	1		15
5.00-5.49								8			8
5.50-5.99								1	2		3
6.00-6.49								1			1
6.50-6.99									1		1
7.00+											0
TOTAL	229	1042	1614	962	411	216	113	19	4	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 6.8 MEAN TP(SEC)= 4.3 NO. OF CASES= 4328.

STATION H14 44.48N 83.12W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	203	482	69	11	4						769
0.50-0.99		374	997	212	10	1					1594
1.00-1.49			172	322	77	2					573
1.50-1.99			1	101	91	23					216
2.00-2.49					45	29	3				77
2.50-2.99					7	33	10				50
3.00-3.49						9	7				16
3.50-3.99						1	5				6
4.00-4.49							4				4
4.50-4.99							2				4
5.00-5.49								2			0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	203	856	1239	646	234	98	31	2	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.7 MEAN TP(SEC)= 4.1 NO. OF CASES= 3107.

STATION H14 44.48N 83.12W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	280	682	185	52	5	1					1205
0.50-0.99		522	1275	401	49	3					2250
1.00-1.49			161	339	114	13					627
1.50-1.99			2	115	132	14					263
2.00-2.49				1	50	18	2				71
2.50-2.99					3	40	6				49
3.00-3.49						6	4				10
3.50-3.99							4				4
4.00-4.49							4				4
4.50-4.99							2	2			4
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	280	1204	1623	908	353	95	22	2	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.9 MEAN TP(SEC)= 4.1 NO. OF CASES= 4206.

STATION H14 44.48N 83.12W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	408	1157	406	357	100	4					2432
0.50-0.99		830	1735	395	265	50	4				3279
1.00-1.49			259	602	125	49	4				1039
1.50-1.99			2	284	121	24	2	1			434
2.00-2.49				10	114	10	4		1		139
2.50-2.99					34	22	2	1			58
3.00-3.49						24	6				30
3.50-3.99						5	6	1			12
4.00-4.49						1	4				5
4.50-4.99							1				1
5.00-5.49								2			2
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	408	1987	2402	1648	759	189	33	5	1	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 5.1 MEAN TP(SEC)= 4.2 NO. OF CASES= 6963.

STATION H14 44.48N 83.12W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	687	1515	479	69	28	2	1	.	.	.	2781
0.50-0.99	.	1343	3084	489	48	16	4	.	.	.	4984
1.00-1.49	.	.	688	1609	100	19	5	.	.	.	2421
1.50-1.99	.	.	10	1023	355	6	1	.	.	.	1395
2.00-2.49	.	.	.	31	713	3	.	.	.	.	747
2.50-2.99	305	102	1	.	.	.	408
3.00-3.49	126	5	.	.	.	154
3.50-3.99	48	1	1	.	.	14
4.00-4.49	3	6	.	.	.	1
4.50-4.99	2	.	.	.	2
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	687	2858	4261	3221	1549	325	37	1	0	0	
MEAN HS(M) = 1.0	LARGEST HS(M)=	5.9	MEAN TP(SEC)=	4.3	NO. OF CASES=	12111.					

STATION H14 44.48N 83.12W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	611	1032	328	89	19	5					2084
0.50-0.99		2200	1989	380	28	7	1				4605
1.00-1.49			691	1067	110	5					1873
1.50-1.99			118	620	471	4					1213
2.00-2.49				85	436	28					549
2.50-2.99				12	113	88					213
3.00-3.49					4	55	5				74
3.50-3.99					2	19	12				33
4.00-4.49						3	12				15
4.50-4.99							7				7
5.00-5.49							1				1
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	611	3232	3126	2253	1183	224	45	0	0	0	
MEAN HS (M) = 1.0	LARGEST HS (M) = 5.5		MEAN TP (SEC) = 4.1		NO. OF CASES = 9997.						

STATION H14 44.48N 83.12W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	685	845	206	117	59	6	4	.	.	.	1922
0.50-0.99	.	1832	735	160	33	17	3	.	.	.	2780
1.00-1.49	.	.	628	89	55	6	1	.	.	.	779
1.50-1.99	.	.	227	372	75	3	.	.	.	.	677
2.00-2.49	.	.	.	144	31	19	1	.	.	.	195
2.50-2.99	.	.	.	12	35	11	.	.	.	.	58
3.00-3.49	20	1	1	.	.	.	22
3.50-3.99	2	1	.	.	.	.	3
4.00-4.49	1	1	.	.	.	3
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	685	2677	1796	894	310	66	11	0	0	0	
MEAN HS(M) = 0.8	LARGEST HS(M)= 4.4		MEAN TP(SEC)= 3.6		NO. OF CASES= 6034.						

STATION H14 44.48N 83.12W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	542	757	193	143	77	8	1	.	.	.	1721
0.50-0.99	.	1401	383	120	88	34	9	.	.	.	2035
1.00-1.49	.	1	455	5	18	10	6	.	.	.	495
1.50-1.99	.	.	143	140	1	1	.	.	.	.	285
2.00-2.49	.	.	.	45	1	2	.	.	.	.	48
2.50-2.99	.	.	.	5	7	.	.	.	.	.	12
3.00-3.49	3	.	.	.	.	.	3
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	542	2159	1174	458	195	55	16	0	0	0	
MEAN HS (M) = 0.7	LARGEST HS (M) = 3.2		MEAN TP (SEC) = 3.5		NO. OF CASES = 4310.						

STATION H14 44.48N 83.12W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	529	868	223	214	99	27	4	.	.	.	1964
0.50-0.99	.	1676	475	255	205	115	32	.	.	.	2758
1.00-1.49	.	.	623	14	47	58	23	1	.	.	766
1.50-1.99	.	.	204	186	.	7	8	.	.	.	405
2.00-2.49	.	.	.	29	1	.	.	.	.	.	30
2.50-2.99	.	.	.	1	9	.	.	.	.	.	10
3.00-3.49	1	.	.	.	.	.	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	529	2544	1525	699	362	207	67	1	0	0	5561.
MEAN HS(M) = 0.7	LARGEST HS(M)= 3.2		MEAN TP(SEC)= 3.8		NO. OF CASES=		5561.				

STATION H14 44.48N 83.12W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	396	678	167	126	45	8	.	.	.	.	1421
0.50-0.99	.	1696	656	267	233	113	12	.	.	.	2977
1.00-1.49	.	.	655	44	110	110	33	1	.	.	953
1.50-1.99	.	.	182	265	12	31	31	.	.	.	531
2.00-2.49	.	.	.	69	5	14	11	.	.	.	99
2.50-2.99	.	.	.	6	10	.	1	.	.	.	17
3.00-3.49	9	.	.	.	.	.	9
3.50-3.99	1	.	1	.	.	2
4.00-4.49	1	.	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	396	2374	1670	777	424	278	88	2	0	0	
MEAN HS(M) = 0.8	LARGEST HS(M)=		4.2	MEAN TP(SEC)=		3.9	NO. OF CASES=		5633.		

STATION H14 44.48N 83.12W AZIMUTH(DEGREES) -315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	267	578	188	111	44	7					1195
0.50-0.99		1516	983	390	194	41	4	1	.	.	3129
1.00-1.49	.	.	783	119	211	143	20	.	.	.	1276
1.50-1.99	.	.	115	576	52	95	37	.	.	.	875
2.00-2.49	.	.	.	178	28	44	35	1	.	.	288
2.50-2.99	.	.	.	8	32	16	10	3	.	.	68
3.00-3.49	.	.	.	.	7	.	7	.	.	.	14
3.50-3.99	.	.	.	.	2	.	.	1	.	.	3
4.00-4.49	.	.	.	.	.	.	.	.	.	.	0
4.50-4.99	.	.	.	.	.	.	.	1	.	.	1
5.00-5.49	.	.	.	.	.	.	.	.	.	.	0
5.50-5.99	.	.	.	.	.	.	.	.	.	.	0
6.00-6.49	.	.	.	.	.	.	.	.	.	.	0
6.50-6.99	.	.	.	.	.	.	.	.	.	.	0
7.00+	.	.	.	.	.	.	.	.	.	.	0
TOTAL	267	2094	2069	1382	570	346	113	7	0	0	
MEAN HS (M) = 0.9	LARGEST HS (M) = 4.7		MEAN TP (SEC) = 4.2		NO. OF CASES = 6419.						

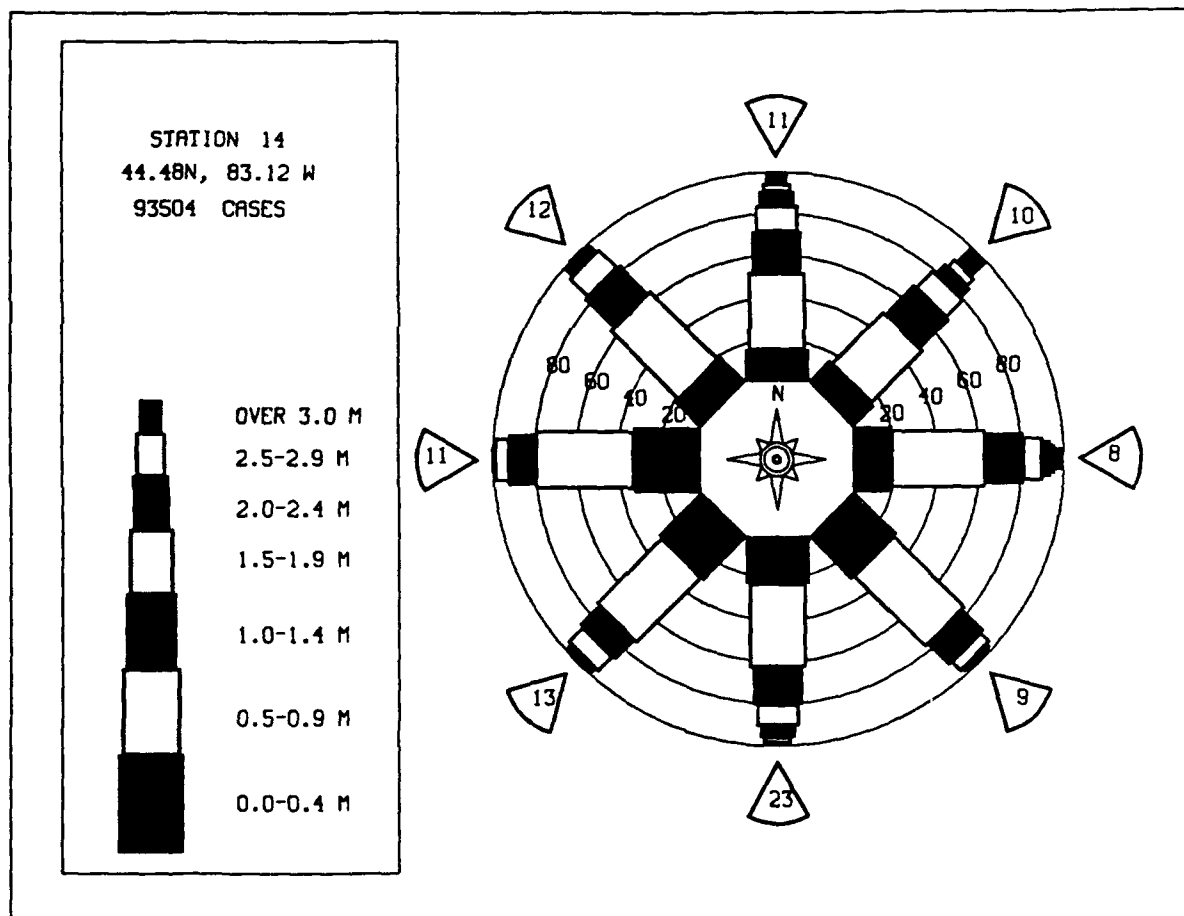
STATION H14 44.48N 83.12W AZIMUTH(DEGREES) =337.3
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	194	433	129	60	16	3					833
0.50-0.99		857	1058	408	108	24	2				2455
1.00-1.49				304	258	70	10				1208
1.50-1.99			566	444	119	84	12				704
2.00-2.49			45	181	65	29					365
2.50-2.99				86	67	40	13				122
3.00-3.49					5	36	13	1			55
3.50-3.99					2	2	22	1			25
4.00-4.49							13				13
4.50-4.99							6				6
5.00-5.49								2			2
5.50-5.99								1			1
6.00-6.49											
6.50-6.99								1			1
7.00+											
TOTAL	194	1290	1798	1309	756	324	121	8	0	0	5444
MEAN HS(M) = 1.1	LARGEST HS(M) = 6.1		MEAN TP(SEC) = 4.5		NO. OF CASES = 5444						

STATION H14 44.48N 83.12W FOR ALL DIRECTIONS
 PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	578	1132	302	144	53	7	1	.	.	.	2217
0.50-0.99	.	1670	1869	501	139	44	7	.	.	.	4230
1.00-1.49	.	.	718	704	198	52	10	.	.	.	1682
1.50-1.99	.	.	108	557	261	55	9	.	.	.	990
2.00-2.49	.	.	.	73	261	63	12	.	.	.	409
2.50-2.99	.	.	.	5	90	95	14	.	.	.	204
3.00-3.49	5	83	21	.	.	.	109
3.50-3.99	14	53	.	.	.	67
4.00-4.49	1	34	.	.	.	35
4.50-4.99	12	4	.	.	16
5.00-5.49	2	6	.	.	8
5.50-5.99	3	.	.	3
6.00-6.49	1	.	.	1
6.50-6.99	2	.	2
7.00+	1	.	1
TOTAL	578	2802	2997	1984	1007	414	175	14	3	0	93504

MEAN HS(M)= 1.0 LARGEST HS(M)= 8.6 MEAN TP(SEC)= 4.2 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H14 (44.48N 83.12W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
YEAR													
1956	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1957	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1958	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1959	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1960	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1961	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1962	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1963	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1964	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1965	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1966	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1967	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1968	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1969	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1970	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1971	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1972	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1973	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1974	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1975	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1976	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1977	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1978	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1979	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1980	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1981	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1982	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1983	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1984	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1985	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1986	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1987	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
MEAN	1.1	1.1	1.1	1.2	1.0	0.9	0.8	0.7	0.8	0.9	1.0	1.1	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H14 (44.48N 83.12W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
YEAR													
1956	3.7	2.8	3.2	3.5	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1957	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1958	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1959	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1960	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1961	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1962	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1963	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1964	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1965	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1966	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1967	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1968	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1969	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1970	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1971	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1972	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1973	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1974	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1975	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1976	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1977	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1978	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1979	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1980	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1981	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1982	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1983	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1984	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1985	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1986	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	
1987	3.4	2.1	3.1	3.3	2.7	2.0	1.9	1.7	2.0	3.3	2.5	2.0	

32 YR. STATISTICS FOR WIS STATION H14

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	1.0
MEAN PEAK WAVE PERIOD (SECONDS)	4.2
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	180.0
STANDARD DEVIATION OF WAVE HS (METERS)	0.7
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.3
LARGEST WAVE HS (METERS)	8.6
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	48.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	60021018

STATION H15 44.63N 83.12W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	223	520	115	25	11	2	.	.	.	.	896
0.50-0.99	.	659	1098	380	48	8	.	.	.	.	2193
1.00-1.49	.	.	427	499	227	11	1	.	.	.	1165
1.50-1.99	.	.	3	408	315	97	2	.	.	.	825
2.00-2.49	.	.	.	20	269	148	10	.	.	.	447
2.50-2.99	91	157	14	.	.	.	262
3.00-3.49	1	130	53	1	.	.	185
3.50-3.99	14	59	.	.	.	73
4.00-4.49	42	.	.	.	42
4.50-4.99	12	.	.	.	18
5.00-5.49	2	6	.	.	5
5.50-5.99	3	.	.	3
6.00-6.49	2	.	.	1
6.50-6.99	1	2	.	3
7.00+	2	.	2
TOTAL	223	1179	1643	1332	962	567	195	13	5	0	
MEAN HS (M) = 1.2	LARGEST HS (M) =		7.2	MEAN TP (SEC) =		4.7	NO. OF CASES =		5741.		

STATION H15 44.63N 83.12W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	149	350	69	10	3						581
0.50-0.99		448	720	264	18	2	.	.	.	.	1452
1.00-1.49			231	332	133	3		.	.	.	689
1.50-1.99				175	191	22	2	.	.	.	393
2.00-2.49			3	6	157	50	1	.	.	.	214
2.50-2.99					29	114	3	.	.	.	146
3.00-3.49					2	72	20	.	.	.	94
3.50-3.99						5	56	.	.	.	71
4.00-4.49							24	.	.	.	24
4.50-4.99								5	.	.	12
5.00-5.49							1	8	.	.	9
5.50-5.99								2	.	.	2
6.00-6.49									.	.	0
6.50-6.99									.	.	0
7.00+									.	.	0
TOTAL	149	798	1023	787	533	268	124	15	0	0	
MEAN HS(M) = 1.2	LARGEST HS(M)=		5.7	MEAN TP(SEC)=		4.6	NO. OF CASES=		3470.		

STATION H15 44.63N 83.12W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	206	520	75	10	4						815
0.50-0.99	.	578	1012	308	21	1	.	.	.	.	1820
1.00-1.49	.	1	322	530	130	2	.	.	.	.	985
1.50-1.99	.	.	3	352	237	18	.	.	.	.	610
2.00-2.49	.	.	.	9	333	51	2	.	.	.	395
2.50-2.99	82	245	10	.	.	.	337
3.00-3.49	1	222	33	.	.	.	256
3.50-3.99	24	111	1	.	.	136
4.00-4.49	54	2	.	.	56
4.50-4.99	31	4	.	.	35
5.00-5.49	5	.	.	.	24
5.50-5.99	18	1	.	14
6.00-6.49	14	.	.	14
6.50-6.99	12	4	.	16
7.00+	1	4	.	5
TOTAL	206	1099	1412	1209	808	563	246	52	11	0	5259

STATION H15 44.63N 83.12W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	174	453	66	7	3	2	.	.	.	.	705
0.50-0.99	.	539	1068	272	9	.	.	.	.	.	1888
1.00-1.49	.	1	276	455	128	2	.	.	.	.	862
1.50-1.99	.	.	1	249	159	18	.	.	.	.	427
2.00-2.49	.	.	.	6	149	41	3	.	.	.	199
2.50-2.99	37	108	12	.	.	.	157
3.00-3.49	85	20	4	.	.	109
3.50-3.99	13	81	2	.	.	96
4.00-4.49	1	50	1	.	.	52
4.50-4.99	25	2	1	.	28
5.00-5.49	4	4	.	.	7
5.50-5.99	3	.	.	4
6.00-6.49	1	.	4
6.50-6.99	1	0
7.00+	1
TOTAL	174	993	1411	989	485	270	195	19	3	0	
MEAN HS (M) = 1.2	LARGEST HS (M) =		7.1	MEAN TP (SEC) =		4.5	NO. OF CASES =		4258.		

STATION H15 44.63N 83.12W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	222	575	71	20	5	.	.	.	.	.	893
0.50-0.99	.	542	1259	263	12	2	.	.	.	.	2078
1.00-1.49	.	.	248	443	82	33	.	.	.	.	778
1.50-1.99	.	.	2	206	170	71	.	.	.	.	411
2.00-2.49	.	.	.	2	124	54	5	.	.	.	202
2.50-2.99	29	18	21	.	.	.	101
3.00-3.49	62	42	.	.	.	83
3.50-3.99	2	27	1	.	.	55
4.00-4.49	7	2	.	.	29
4.50-4.99	5	1	.	13
5.00-5.49	10	.	.	10
5.50-5.99	3	1	.	4
6.00-6.49	1	.	.	1
6.50-6.99	1	.	1
7.00+	0
TOTAL	222	1117	1580	936	422	227	130	22	3	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 6.8 MEAN TP(SEC)= 4.3 NO. OF CASES= 4369.

STATION H15 44.63N 83.12W AZIMUTH(DEGREES) = 112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	204	476	56	13	1	.	.	.	.	.	750
0.50-0.99	.	378	1006	181	7	.	.	.	.	.	1573
1.00-1.49	.	.	168	303	74	1	.	.	.	.	548
1.50-1.99	.	.	.	89	97	23	.	.	.	.	209
2.00-2.49	.	.	.	3	50	34	5	.	.	.	92
2.50-2.99	9	31	10	.	.	.	50
3.00-3.49	12	11	.	.	.	23
3.50-3.99	5	.	.	.	5
4.00-4.49	4	.	.	.	4
4.50-4.99	1	.	.	3
5.00-5.49	2	.	.	.	0
5.50-5.99	1	.	.	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	204	855	1230	591	238	101	37	1	0	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.8 MEAN TP(SEC)= 4.1 NO. OF CASES= 3059.

STATION H15 44.63N 83.12W AZIMUTH(DEGREES) = 135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	257	709	174	37	5	.	.	.	.	.	1182
0.50-0.99	.	511	1250	448	51	1	.	.	.	.	2261
1.00-1.49	.	.	171	347	126	8	.	.	.	.	652
1.50-1.99	.	.	1	102	135	21	.	.	.	.	259
2.00-2.49	.	.	.	3	47	12	4	.	.	.	66
2.50-2.99	3	35	7	.	.	.	45
3.00-3.49	6	4	.	.	.	10
3.50-3.99	4	.	.	.	6
4.00-4.49	2	.	.	.	3
4.50-4.99	1	.	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	257	1220	1596	937	367	83	27	2	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 5.2 MEAN TP(SEC)= 4.1 NO. OF CASES= 4207.

STATION H15 44.63N 83.12W AZIMUTH(DEGREES) = 157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	348	1193	500	376	119	4	.	.	.	.	2540
0.50-0.99	.	933	1879	567	333	65	6	.	.	.	3783
1.00-1.49	.	.	231	586	205	73	9	.	.	.	1104
1.50-1.99	.	.	3	254	176	37	7	1	.	.	478
2.00-2.49	.	.	.	6	114	23	4	1	.	.	148
2.50-2.99	33	48	6	1	1	.	89
3.00-3.49	27	3	.	.	.	30
3.50-3.99	3	11	3	.	.	17
4.00-4.49	6	.	.	.	6
4.50-4.99	2	1	.	.	3
5.00-5.49	2	.	.	2
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	348	2126	2613	1789	980	280	54	9	1	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 5.2 MEAN TP(SEC)= 4.3 NO. OF CASES= 7682.

STATION H15 44.63N 83.12W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49											3086
0.50-0.99	635	1525	761	133	28	4					6172
1.00-1.49		1714	3187	1121	120	26					2753
1.50-1.99			686	1652	356	37	12				1575
2.00-2.49			17	891	638	24	5				829
2.50-2.99				28	746	52	3				552
3.00-3.49					211	339	2				208
3.50-3.99					3	204	1				103
4.00-4.49						47	56				45
4.50-4.99						2	43				15
5.00-5.49							10				5
5.50-5.99							5				6
6.00-6.49							2				1
6.50-6.99								1			0
7.00+											0
TOTAL	635	3239	4661	3825	2102	735	143	6	0	0	
MEAN HS(M) = 1.0	LARGEST HS(M) =		6.1	MEAN TP(SEC) =		4.4	NO. OF CASES =		14365.		

STATION H15 44.63N 83.12W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL	
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER		
0.00-0.49	539	982	260	82	17	2	.	.	.	.	1882
0.50-0.99	.	2504	1237	484	64	4	2	.	.	.	4295	
1.00-1.49	.	.	878	331	238	8	2	.	.	.	1457	
1.50-1.99	.	.	205	486	272	24	3	.	.	.	990	
2.00-2.49	.	.	.	106	211	62	3	.	.	.	382	
2.50-2.99	.	.	.	9	49	111	8	.	.	.	177	
3.00-3.49	7	45	7	.	.	.	59	
3.50-3.99	2	13	12	.	.	.	27	
4.00-4.49	2	2	10	.	.	.	14	
4.50-4.99	4	.	.	.	4	
5.00-5.49	4	.	.	.	4	
5.50-5.99	1	.	.	.	1	
6.00-6.49	2	.	.	1	
6.50-6.99	1	.	.	1	
7.00+	1	.	1	
TOTAL	539	3486	2580	1498	862	271	56	3	1	0	0	
MEAN HS(M) = 0.9	LARGEST HS(M)= 6.5										MEAN TP(SEC)= 4.0	NO. OF CASES= 8709.

STATION H15 44.63N 83.12W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	630	799	175	108	44	6	.	.	.	.	1762
0.50-0.99	.	1781	638	97	36	6	3	.	.	.	2561
1.00-1.49	.	.	707	13	22	1	1	.	.	.	744
1.50-1.99	.	.	173	330	8	3	1	.	.	.	515
2.00-2.49	.	.	.	102	9	7	2	.	.	.	120
2.50-2.99	.	.	.	6	29	.	1	.	.	.	36
3.00-3.49	14	.	.	.	.	.	14
3.50-3.99	1	.	.	.	.	.	1
4.00-4.49	3	.	.	.	.	3
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	630	2580	1693	656	163	26	8	0	0	0	
MEAN HS (M) = 0.8	LARGEST HS (M) = 4.1		MEAN IP (SEC) = 3.5		NO. OF CASES = 5396.						

STATION B15 44.63N 83.12W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	530	712	174	141	69	13	1	.	.	.	1640
0.50-0.99	.	1309	370	106	77	23	8	.	.	.	1893
1.00-1.49	.	.	476	8	11	12	5	.	.	.	511
1.50-1.99	.	.	113	101	1	1	1	.	.	.	217
2.00-2.49	.	.	.	42	1	.	.	.	.	.	43
2.50-2.99	.	.	.	1	9	.	.	.	.	.	10
3.00-3.49	3	.	.	.	.	.	3
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	530	2021	1133	399	171	49	14	0	0	0	
MEAN HS(M) = 0.7	LARGEST HS(M) = 3.1		MEAN TP(SEC) = 3.5		NO. OF CASES = 4047.						

STATION H15 44.63N 83.12W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	513	853	232	213	98	19	1	.	.	.	1929
0.50-0.99	.	1629	484	220	202	105	20	.	.	.	2660
1.00-1.49	.	.	664	22	35	56	17	1	.	.	795
1.50-1.99	.	.	150	165	4	12	6	.	.	.	337
2.00-2.49	.	.	.	33	.	.	.	.	.	.	33
2.50-2.99	.	.	.	4	4	1	.	.	.	.	9
3.00-3.49	2	.	.	.	.	.	2
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	513	2482	1530	657	345	193	44	1	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.2 MEAN TP(SEC)= 3.8 NO. OF CASES= 5401.

STATION H15 44.63N 83.12W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	392	731	176	129	57	4	.	.	.	.	1489
0.50-0.99	.	1657	546	279	250	90	13	.	.	.	2835
1.00-1.49	.	.	678	40	106	113	25	1	.	.	963
1.50-1.99	.	.	147	220	13	31	27	.	.	.	438
2.00-2.49	.	.	.	62	3	9	7	.	.	.	81
2.50-2.99	.	.	.	1	11	2	1	.	.	.	15
3.00-3.49	5	.	.	.	.	.	5
3.50-3.99	1	.	.	.	.	2
4.00-4.49	1	.	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	392	2388	1547	731	445	251	73	2	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.2 MEAN TP(SEC)= 3.9 NO. OF CASES= 5464.

STATION H15 44.63N 83.12W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	243	622	180	105	39	3	.	.	.	.	1192
0.50-0.99	.	1682	935	397	203	54	2	1	.	.	3274
1.00-1.49	.	.	790	84	238	146	21	.	.	.	1279
1.50-1.99	.	.	135	570	62	127	43	1	.	.	938
2.00-2.49	.	.	.	164	29	47	41	1	.	.	282
2.50-2.99	.	.	.	9	33	14	10	3	.	.	69
3.00-3.49	9	2	5	.	.	.	16
3.50-3.99	1	.	.	.	.	.	1
4.00-4.49	1	1	.	.	2
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	243	2304	2040	1329	614	393	123	7	0	0	

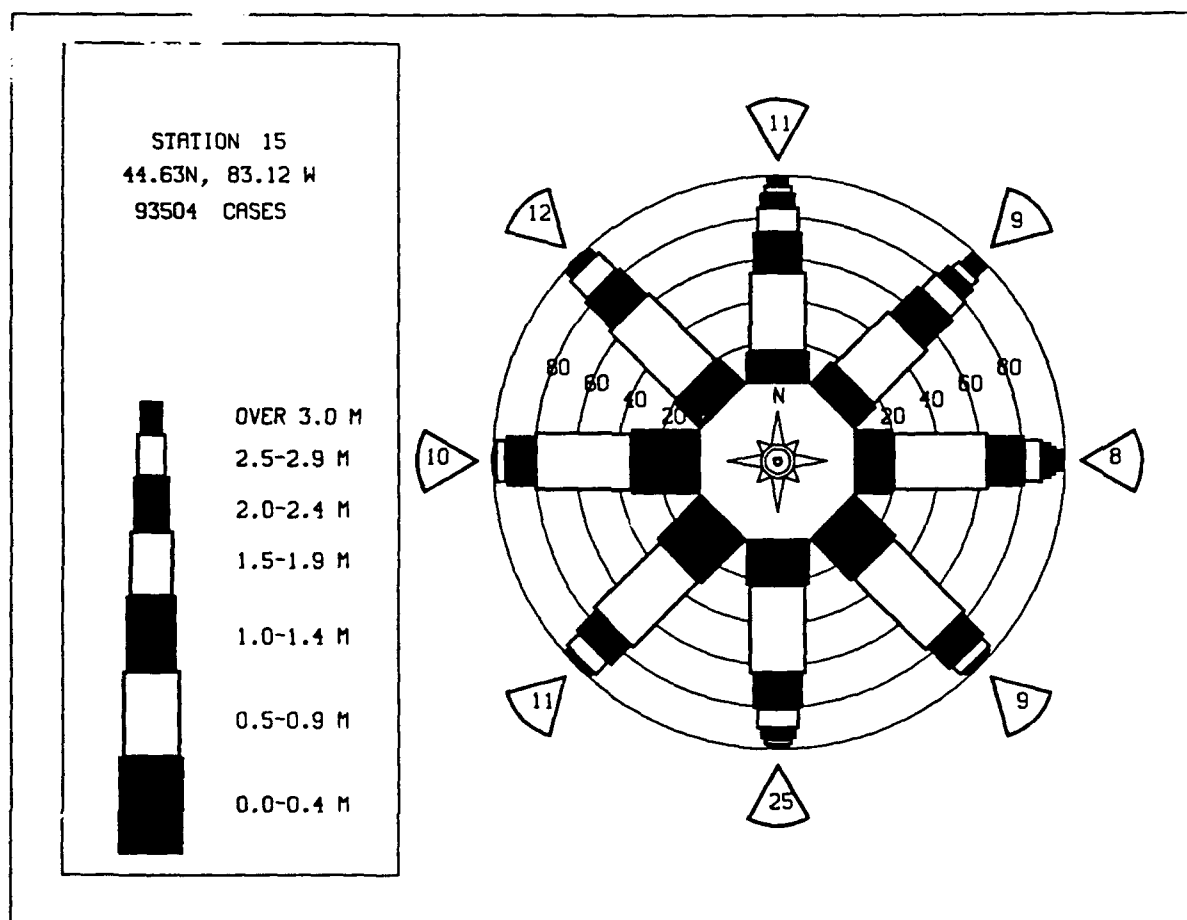
MEAN HS(M) = 0.9 LARGEST HS(M)= 4.2 MEAN TP(SEC)= 4.2 NO. OF CASES= 6611.

STATION H15 44.63N 83.12W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	187	482	136	67	13	2	.	.	.	.	887
0.50-0.99	.	948	1041	397	110	22	.	.	.	.	2519
1.00-1.49	.	.	585	250	228	70	6	.	.	.	1139
1.50-1.99	.	.	66	429	121	80	21	.	.	.	727
2.00-2.49	.	.	.	110	145	66	31	.	.	.	352
2.50-2.99	.	.	.	4	62	49	8	1	.	.	124
3.00-3.49	7	26	9	.	.	.	43
3.50-3.99	1	4	20	.	.	.	25
4.00-4.49	2	4	.	.	.	6
4.50-4.99	3	1	.	.	4
5.00-5.49	1	1	.	.	2
5.50-5.99	1	.	.	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	187	1430	1828	1257	687	331	104	5	0	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.8 MEAN TP(SEC)= 4.4 NO. OF CASES= 5466.

STATION H15 44.63N 83.12W FOR ALL DIRECTIONS											
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	545	1151	322	148	52	6	.	.	.	.	2224
0.50-0.99	.	1782	1773	579	156	41	6	.	.	.	4337
1.00-1.49	.	.	755	590	234	55	10	.	.	.	1644
1.50-1.99	.	.	102	503	260	58	12	.	.	.	935
2.00-2.49	.	.	.	70	239	67	12	.	.	.	388
2.50-2.99	.	.	.	3	72	131	11	.	.	.	217
3.00-3.49	5	89	19	.	.	.	113
3.50-3.99	13	48	.	.	.	61
4.00-4.49	1	27	.	.	.	28
4.50-4.99	10	2	.	.	12
5.00-5.49	2	.	.	.	6
5.50-5.99	3	.	.	3
6.00-6.49	2	.	.	2
6.50-6.99	0
7.00+	0
TOTAL	545	2933	2952	1893	1018	461	157	11	0	0	93504
MEAN HS(M)= 0.9	LARGEST HS(M)= 8.1		MEAN TP(SEC)= 4.2		TOTAL CASES= 93504.						



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H15 (44.63N 83.12W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	1.0	0.7	0.9	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1957	1.0	0.7	0.9	0.8	0.8	0.7	0.6	0.5	0.6	0.8	0.7	0.7	0.7
1958	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1959	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1960	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1961	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1962	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1963	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1964	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1965	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1966	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1967	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1968	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1969	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1970	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1971	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1972	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1973	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1974	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1975	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1976	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1977	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1978	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1979	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1980	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1981	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1982	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1983	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1984	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1985	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1986	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1987	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
MEAN	1.1	1.0	1.1	1.1	1.0	0.8	0.7	0.7	0.8	0.9	1.0	1.0	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H15 (44.63N 83.12W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.6	2.8	5.2	3.7	2.7	1.9	1.8	1.7	2.1	3.6	2.5	2.0	
1957	3.6	2.8	5.2	3.7	2.7	1.9	1.8	1.7	2.1	3.6	2.5	2.0	
1958	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1959	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1960	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1961	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1962	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1963	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1964	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1965	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1966	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1967	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1968	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1969	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1970	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1971	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1972	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1973	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1974	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1975	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1976	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1977	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1978	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1979	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1980	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1981	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1982	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1983	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1984	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1985	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1986	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	
1987	4.4	4.7	2.9	5.4	3.3	3.7	2.2	2.6	4.4	4.0	4.8	4.0	

32 YR. STATISTICS FOR WIS STATION H15

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.9
MEAN PEAK WAVE PERIOD	(SECONDS)	4.2
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	180.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.7
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.3
LARGEST WAVE HS	(METERS)	8.1
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	10.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	48.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		60021018

STATION H16 44.77N 83.12W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	186	514	132	23	3	1	.	.	.	.	859
0.50-0.99	.	547	1004	365	38	2	.	.	.	.	1956
1.00-1.49	.	.	291	519	216	8	1	.	.	.	1035
1.50-1.99	.	.	5	283	343	45	1	.	.	.	677
2.00-2.49	.	.	.	20	270	126	16	.	.	.	422
2.50-2.99	54	199	10	.	.	.	263
3.00-3.49	124	14	.	.	.	138
3.50-3.99	6	41	.	.	.	49
4.00-4.49	20	.	.	.	20
4.50-4.99	8	.	.	.	10
5.00-5.49	2	.	.	2
5.50-5.99	1	1	.	.	2
6.00-6.49	2	.	.	2
6.50-6.99	1	.	0
7.00+	1
TOTAL	186	1061	1432	1210	924	513	102	7	1	0	5098.
MEAN HS (M) = 1.2	LARGEST HS (M) = 7.0		MEAN TP (SEC) = 4.7		NO. OF CASES =		5098.				

STATION H16 44.77N 83.12W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	137	403	86	12	6						644
0.50-0.99		389	787	284	24	1	.	.	.	.	1485
1.00-1.49			195	416	127	4	.	.	.	.	742
1.50-1.99			2	165	209	13	.	.	.	.	389
2.00-2.49				4	165	53	4	.	.	.	226
2.50-2.99					13	115	3	.	.	.	131
3.00-3.49					1	58	19	.	.	.	78
3.50-3.99						4	42	.	.	.	46
4.00-4.49							13	.	.	.	13
4.50-4.99							9	2	.	.	11
5.00-5.49							1	1	.	.	2
5.50-5.99								2	.	.	2
6.00-6.49									.	.	0
6.50-6.99									.	.	0
7.00+									.	.	0
TOTAL	137	792	1070	881	545	248	91	5	0	0	3539.
MEAN HS (M) = 1.1	LARGEST HS (M) = 5.7		MEAN TP (SEC) = 4.5		NO. OF CASES = 3539.						

STATION H16 44.77N 83.12W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	207	505	101	14	5						832
0.50-0.99		441	921	303	8	2					1675
1.00-1.49			236	473	118	3					830
1.50-1.99			1	280	250	14					545
2.00-2.49				8	268	54	2				322
2.50-2.99					55	197	39				261
3.00-3.49						129	9				100
3.50-3.99						8	90				41
4.00-4.49							41				26
4.50-4.99							19				15
5.00-5.49							5	10			15
5.50-5.99								13	2		15
6.00-6.49								3			5
6.50-6.99									1		1
7.00+											1
TOTAL	207	946	1259	1078	704	407	203	35	5	0	
MEAN HS (M) = 1.3	LARGEST HS (M) =		7.4	MEAN TP (SEC) =		4.7	NO. OF CASES =		4548.		

STATION B16 44.77N 83.12W AZIMUTH(DEGREES) = 67.
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	152	535	83	8	3	2	.	.	.	.	781
0.50-0.99	.	443	887	248	10	2	.	.	.	.	1590
1.00-1.49	.	.	156	372	110	1	.	.	.	.	639
1.50-1.99	.	.	.	185	162	16	.	.	.	.	363
2.00-2.49	.	.	.	5	149	50	2	.	.	.	206
2.50-2.99	29	120	18	.	.	.	157
3.00-3.49	94	11	1	.	.	113
3.50-3.99	11	69	1	1	.	82
4.00-4.49	1	36	2	.	.	39
4.50-4.99	16	1	.	.	17
5.00-5.49	2	.	.	.	2
5.50-5.99	7	.	.	7
6.00-6.49	1	.	.	1
6.50-6.99	1	.	1
7.00+	0
TOTAL	152	978	1126	818	463	295	151	13	2	0	
MEAN HS (M) = 1.1	LARGEST HS (M) =		6.9	MEAN TP (SEC) =		4.5	NO. OF CASES =		3751.		

STATION H16 44.77N 83.12W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	241	704	88	13	9	.	.	.	.	.	1055
0.50-0.99	.	475	1044	244	5	.	.	.	.	.	1768
1.00-1.49	.	.	163	345	85	1	.	.	.	.	594
1.50-1.99	.	.	1	179	175	21	.	.	.	.	376
2.00-2.49	124	67	5	.	.	.	196
2.50-2.99	19	82	27	.	.	.	128
3.00-3.49	1	50	23	.	.	.	74
3.50-3.99	2	51	.	.	.	53
4.00-4.49	24	.	.	.	24
4.50-4.99	8	8	1	.	17
5.00-5.49	6	.	.	6
5.50-5.99	8	1	.	9
6.00-6.49	1	1	.	2
6.50-6.99	0
7.00+	0
TOTAL	241	1179	1296	781	418	223	138	23	3	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 6.7 MEAN TP(SEC)= 4.3 NO. OF CASES= 4038.

STATION H16 44.77N 83.12W AZIMUTH(DEGREES) = 112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	196	618	71	16	4	.	.	.	.	.	905
0.50-0.99	.	456	949	203	4	.	.	.	.	.	1612
1.00-1.49	.	.	163	351	101	1	.	.	.	.	616
1.50-1.99	.	.	1	114	135	28	.	.	.	.	278
2.00-2.49	.	.	.	3	58	48	8	.	.	.	117
2.50-2.99	7	51	12	1	.	.	71
3.00-3.49	16	13	2	.	.	31
3.50-3.99	10	.	.	.	10
4.00-4.49	10	.	.	.	10
4.50-4.99	1	.	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	196	1074	1184	687	309	144	53	4	0	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.9 MEAN TP(SEC)= 4.1 NO. OF CASES= 3427.

STATION H16 44.77N 83.12W AZIMUTH(DEGREES) = 135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	296	885	214	49	6	1	.	.	.	.	1451
0.50-0.99	.	567	1236	455	51	2	.	.	.	.	2311
1.00-1.49	.	.	158	375	114	6	.	.	.	.	653
1.50-1.99	.	.	1	117	144	24	4	.	.	.	290
2.00-2.49	.	.	.	1	53	32	1	.	.	.	87
2.50-2.99	1	24	8	.	.	.	33
3.00-3.49	12	9	.	.	.	21
3.50-3.99	4	.	.	.	4
4.00-4.49	5	.	.	.	5
4.50-4.99	2	.	.	2
5.00-5.49	1	.	.	1
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	296	1452	1609	997	369	101	31	3	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 5.3 MEAN TP(SEC)= 4.0 NO. OF CASES= 4554.

STATION H16 44.77N 83.12W AZIMUTH(DEGREES) = 157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	350	1452	689	411	130	2	.	.	.	.	3034
0.50-0.99	.	938	1993	860	387	78	.	.	.	.	4263
1.00-1.49	.	1	229	648	308	97	10	.	.	.	1293
1.50-1.99	.	.	1	199	195	38	10	.	.	.	444
2.00-2.49	.	.	.	5	110	32	7	2	.	.	156
2.50-2.99	20	46	8	.	.	.	76
3.00-3.49	32	4	2	1	.	39
3.50-3.99	1	11	1	.	.	13
4.00-4.49	6	2	.	.	8
4.50-4.99	4	1	.	.	5
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	350	2391	2912	2123	1150	328	67	9	1	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 4.9 MEAN TP(SEC)= 4.3 NO. OF CASES= 8740.

STATION H16 44.77N 83.12W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	580	1717	1072	223	52	3	.	.	.	.	3647
0.50-0.99	.	1996	3394	1772	294	35	2	.	.	.	7493
1.00-1.49	.	.	674	1737	860	83	14	.	.	.	3368
1.50-1.99	.	.	28	579	992	128	24	.	.	.	1751
2.00-2.49	.	.	.	17	576	272	17	.	.	.	882
2.50-2.99	64	365	31	1	.	.	461
3.00-3.49	188	44	1	.	.	233
3.50-3.99	14	80	.	.	.	94
4.00-4.49	37	1	.	.	38
4.50-4.99	3	4	.	.	7
5.00-5.49	2	6	.	.	8
5.50-5.99	5	2	.	7
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	580	3713	5168	4328	2838	1088	254	18	2	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.9 MEAN TP(SEC)= 4.5 NO. OF CASES= 16838.

STATION H16 44.77N 83.12W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	520	1050	209	74	20	3	.	.	.	.	1876
0.50-0.99	.	2303	941	337	128	11	1	.	.	.	3721
1.00-1.49	.	.	742	144	258	28	3	.	.	.	1175
1.50-1.99	.	.	144	225	172	43	9	.	.	.	593
2.00-2.49	.	.	.	43	78	53	13	.	.	.	187
2.50-2.99	.	.	.	6	16	48	20	.	.	.	90
3.00-3.49	19	13	1	.	.	33
3.50-3.99	3	1	12	1	.	.	17
4.00-4.49	8	1	.	.	9
4.50-4.99	3	2	.	.	5
5.00-5.49	2	.	.	.	2
5.50-5.99	1	.	.	1
6.00-6.49	1	.	.	1
6.50-6.99	1	.	1
7.00+	0
TOTAL	520	3353	2036	829	675	206	84	7	1	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 6.6 MEAN TP(SEC)= 3.8 NO. OF CASES= 7227.

STATION H16 44.77N 83.12W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	581	858	173	106	24	4	.	.	.	.	1746
0.50-0.99	.	1594	576	80	27	3	1	.	.	.	2291
1.00-1.49	.	.	575	29	11	2	1	.	.	.	618
1.50-1.99	.	.	106	159	6	7	2	.	.	.	280
2.00-2.49	.	.	.	51	3	1	1	.	.	.	56
2.50-2.99	.	.	.	2	14	.	1	.	.	.	17
3.00-3.49	2	.	.	.	.	.	2
3.50-3.99	1	.	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	581	2452	1430	437	88	17	6	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.5 MEAN TP(SEC)= 3.4 NO. OF CASES= 4698.

STATION H16 44.77N 83.12W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	509	760	178	164	71	6	.	.	.	.	1688
0.50-0.99	.	1173	379	80	55	16	6	.	.	.	1709
1.00-1.49	.	.	361	11	14	8	.	.	.	.	394
1.50-1.99	.	.	59	12	2	.	.	.	.	.	113
2.00-2.49	.	.	.	17	1	.	.	.	.	.	18
2.50-2.99	.	.	.	1	5	.	.	.	.	.	6
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	509	1933	977	325	148	30	6	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.8 MEAN TP(SEC)= 3.4 NO. OF CASES= 3682.

STATION H16 44.77N 83.12W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	513	934	262	235	104	18	.	.	.	.	2066
0.50-0.99	.	1459	437	251	198	83	16	.	.	.	2445
1.00-1.49	.	.	487	18	16	37	12	1	.	.	571
1.50-1.99	.	.	104	72	4	3	8	.	.	.	191
2.00-2.49	.	.	.	14	.	.	.	.	.	.	14
2.50-2.99	.	.	.	1	.	.	.	.	.	.	1
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	513	2393	1290	591	323	141	36	1	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.5 MEAN TP(SEC)= 3.7 NO. OF CASES= 4955.

STATION H16 44.77N 83.12W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	432	898	194	135	54	1	.	.	.	.	1714
0.50-0.99	.	1802	570	324	288	93	8	.	.	.	3085
1.00-1.49	.	.	633	40	113	133	31	.	.	.	950
1.50-1.99	.	.	102	144	7	36	24	1	.	.	314
2.00-2.49	.	.	.	38	2	4	8	1	.	.	53
2.50-2.99	.	.	.	2	4	1	1	.	.	.	8
3.00-3.49	3	.	.	.	.	.	3
3.50-3.99	1	.	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	432	2700	1489	683	472	268	72	2	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.6 MEAN TP(SEC)= 3.8 NO. OF CASES= 5740.

STATION H16 44.77N 83.12W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	271	804	198	119	27	2	.	.	.	.	1421
0.50-0.99	.	1879	999	513	255	55	2	.	.	.	3703
1.00-1.49	.	.	880	108	275	188	17	1	.	.	1470
1.50-1.99	.	.	140	500	78	170	56	.	.	.	944
2.00-2.49	.	.	.	112	22	50	71	.	.	.	255
2.50-2.99	.	.	.	5	18	13	17	4	.	.	57
3.00-3.49	5	1	2	2	1	.	11
3.50-3.99	1	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	271	2683	2217	1357	680	480	165	8	1	0	

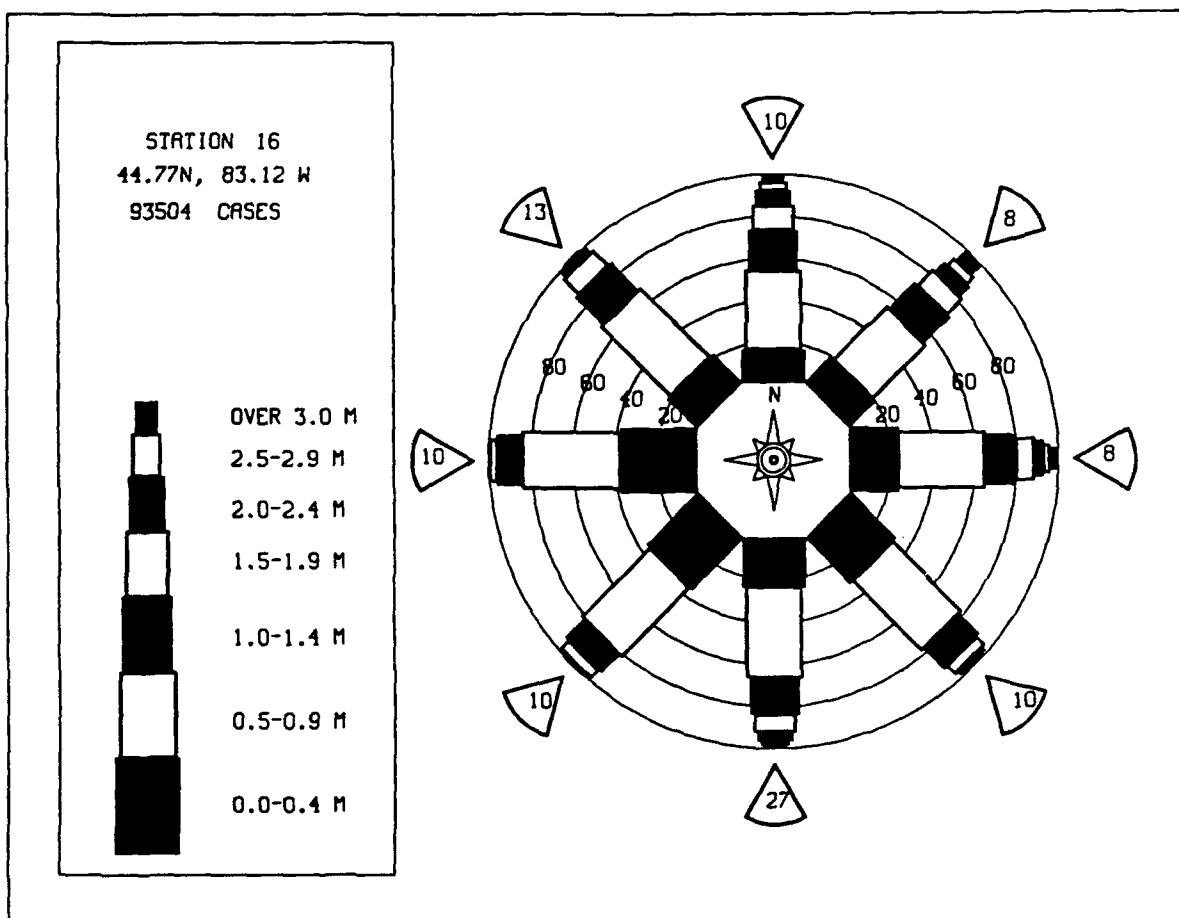
MEAN HS(M) = 0.9 LARGEST HS(M)= 3.7 MEAN TP(SEC)= 4.2 NO. OF CASES= 7364.

STATION H16 44.77N 83.12W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	193	485	154	57	11	1	.	.	.	.	901
0.50-0.99	.	1012	945	418	116	8	.	.	.	.	2499
1.00-1.49	.	.	462	253	288	56	2	.	.	.	1062
1.50-1.99	.	.	56	296	172	116	21	.	.	.	661
2.00-2.49	.	.	.	57	132	100	53	.	.	.	342
2.50-2.99	.	.	.	1	38	63	13	2	.	.	117
3.00-3.49	7	31	4	2	.	.	44
3.50-3.99	3	13	1	.	.	17
4.00-4.49	6	.	.	.	8
4.50-4.99	3	.	.	.	3
5.00-5.49	2	.	.	2
5.50-5.99	1	.	.	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	193	1498	1617	1082	764	380	115	8	0	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.6 MEAN TP(SEC)= 4.4 NO. OF CASES= 5305.

STATION H16 44.77N 83.12W FOR ALL DIRECTIONS										
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-11.0+ LONGER
0.00-0.49										2463
0.50-0.99	537	1312	391	166	53	4				4361
1.00-1.49		1748	1706	675	189	39	4			1602
1.50-1.99			641	584	302	66	9			822
2.00-2.49			75	355	305	71	16			355
2.50-2.99				40	201	94	20			187
3.00-3.49				1	36	133	17			98
3.50-3.99					2	75	20	1		47
4.00-4.49						5	42			21
4.50-4.99							21			10
5.00-5.49							7	3		3
5.50-5.99							1	2		4
6.00-6.49								4		0
6.50-6.99										0
7.00+										0
TOTAL	537	3060	2813	1821	1088	487	157	10	0	0
MEAN HS(M)= 0.9	LARGEST HS(M)= 7.4		MEAN TP(SEC)= 4.2		TOTAL CASES= 93504.					



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H16 (44.77N 83.12W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
YEAR													
1956	1.0	0.7	0.9	0.8	0.8	0.7	0.6	0.5	0.6	0.9	0.8	0.7	0.8
1957	0.7	0.7	0.8	0.8	0.9	0.7	0.7	0.6	0.6	0.9	0.9	0.9	0.7
1958	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1959	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1960	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1961	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1962	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1963	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1964	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1965	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1966	0.9	0.9	1.1	1.1	1.1	0.9	0.9	0.9	0.9	1.1	1.1	1.1	0.9
1967	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1968	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1969	0.9	0.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.9
1970	0.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.9
1971	0.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.9
1972	0.9	0.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.9
1973	0.9	0.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.9
1974	1.0	0.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0
1975	1.0	0.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0
1976	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1977	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1978	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1979	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1980	0.9	0.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.9
1981	0.9	0.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.9
1982	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1983	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1984	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1985	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1986	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1987	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
MEAN	1.0	1.0	1.1	1.1	0.9	0.8	0.7	0.7	0.7	0.9	1.0	1.0	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H16 (44.77N 83.12W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
YEAR													
1956	3.4	2.2	3.7	3.3	3.0	1.8	1.8	1.7	2.2	3.5	2.4	1.9	
1957	2.9	2.2	2.6	3.3	3.5	2.7	2.5	2.4	3.6	4.1	3.3	2.2	
1958	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1959	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1960	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1961	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1962	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1963	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1964	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1965	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1966	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1967	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1968	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1969	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1970	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1971	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1972	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1973	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1974	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1975	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1976	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1977	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1978	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1979	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1980	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1981	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1982	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1983	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1984	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1985	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1986	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1987	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	

32 YR. STATISTICS FOR WIS STATION H16

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	0.9
MEAN PEAK WAVE PERIOD (SECONDS)	4.2
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	180.0
STANDARD DEVIATION OF WAVE HS (METERS)	0.7
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.4
LARGEST WAVE HS (METERS)	7.4
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	10.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	50.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	60021018

STATION H17 44.92N 83.12W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	147	443	87	28	2	.	.	.	.	.	707
0.50-0.99	.	474	1036	351	19	1	.	.	.	.	1881
1.00-1.49	.	.	260	592	173	3	.	.	.	.	1028
1.50-1.99	.	.	8	306	370	18	.	.	.	.	702
2.00-2.49	.	.	.	11	374	50	1	.	.	.	436
2.50-2.99	56	234	2	.	.	.	292
3.00-3.49	96	1	.	.	.	97
3.50-3.99	11	26	.	.	.	37
4.00-4.49	12	.	.	.	12
4.50-4.99	7	.	.	.	7
5.00-5.49	1	.	.	.	1
5.50-5.99	2	.	.	2
6.00-6.49	1	.	1
6.50-6.99	1	1
7.00+	0
TOTAL	147	917	1391	1288	994	413	50	3	1	0	4880

MEAN HS(M) = 1.2 LARGEST HS(M)= 6.6 MEAN TP(SEC)= 4.7 NO. OF CASES= 4880.

STATION H17 44.92N 83.12W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	156	362	49	11	2	.	.	.	.	.	580
0.50-0.99	.	377	739	194	8	.	1	.	.	.	1319
1.00-1.49	.	.	136	365	90	.	.	.	.	.	591
1.50-1.99	.	.	3	151	187	9	.	.	.	.	350
2.00-2.49	.	.	.	2	131	38	.	.	.	.	171
2.50-2.99	34	86	5	.	.	.	125
3.00-3.49	41	14	.	.	.	55
3.50-3.99	6	25	.	.	.	31
4.00-4.49	9	.	.	.	9
4.50-4.99	5	.	.	.	5
5.00-5.49	1	1	.	.	2
5.50-5.99	1	.	.	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	156	739	927	723	452	180	60	2	0	0	3042

MEAN HS(M) = 1.1 LARGEST HS(M)= 5.8 MEAN TP(SEC)= 4.4 NO. OF CASES= 3042.

STATION H17 44.92N 83.12W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	154	394	71	12	1	.	.	.	.	.	632
0.50-0.99	.	381	849	248	6	2	.	.	.	.	1486
1.00-1.49	.	.	175	465	99	2	.	.	.	.	741
1.50-1.99	.	.	2	225	296	12	.	.	.	.	535
2.00-2.49	.	.	.	2	254	54	3	.	.	.	313
2.50-2.99	37	143	9	.	.	.	189
3.00-3.49	114	18	.	.	.	132
3.50-3.99	12	54	.	.	.	66
4.00-4.49	28	1	.	.	29
4.50-4.99	14	1	.	.	15
5.00-5.49	2	3	2	.	7
5.50-5.99	6	.	.	6
6.00-6.49	1	1	.	2
6.50-6.99	0
7.00+	0
TOTAL	154	775	1097	952	693	339	128	12	3	0	3897

MEAN HS(M) = 1.2 LARGEST HS(M)= 6.3 MEAN TP(SEC)= 4.7 NO. OF CASES= 3897.

STATION H17 44.92N 83.12W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	119	346	37	6	.	.	.	.	.	.	508
0.50-0.99	.	314	626	173	4	.	.	.	.	.	1117
1.00-1.49	.	.	151	332	78	1	.	.	.	.	562
1.50-1.99	.	.	.	175	224	44	.	.	.	.	404
2.00-2.49	.	.	.	2	146	4	.	.	.	.	193
2.50-2.99	25	101	9	.	.	.	135
3.00-3.49	75	23	.	.	.	98
3.50-3.99	6	49	1	.	.	56
4.00-4.49	20	2	1	.	23
4.50-4.99	5	2	.	.	6
5.00-5.49	2	2	.	.	4
5.50-5.99	4	.	.	4
6.00-6.49	1	.	1
6.50-6.99	0
7.00+	0
TOTAL	119	660	814	688	477	232	109	10	2	0	2922

MEAN HS(M) = 1.2 LARGEST HS(M)= 6.5 MEAN TP(SEC)= 4.6 NO. OF CASES= 2922.

STATION H17 44.92N 83.12W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	175	413	55	7	2	.	.	.	.	.	652
0.50-0.99	.	419	773	211	5	.	.	.	.	.	1408
1.00-1.49	.	.	163	341	83	1	.	.	.	.	588
1.50-1.99	.	.	1	176	188	27	.	.	.	.	392
2.00-2.49	.	.	.	2	141	54	5	.	.	.	202
2.50-2.99	21	112	26	.	.	.	159
3.00-3.49	45	25	.	.	.	70
3.50-3.99	3	41	1	.	.	45
4.00-4.49	1	28	.	.	.	29
4.50-4.99	6	3	.	.	9
5.00-5.49	1	7	1	.	9
5.50-5.99	5	.	.	5
6.00-6.49	1	.	.	1
6.50-6.99	0
7.00+	0
TOTAL	175	832	992	737	440	243	132	17	1	0	

MEAN HS(M) = 1.1 LARGEST HS(M)= 6.3 MEAN TP(SEC)= 4.5 NO. OF CASES= 3351.

STATION H17 44.92N 83.12W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	177	513	41	4	.	.	.	.	.	.	735
0.50-0.99	.	555	977	176	.	.	.	.	.	.	1708
1.00-1.49	.	.	262	394	86	.	.	.	.	.	742
1.50-1.99	.	.	.	179	155	23	.	.	.	.	357
2.00-2.49	.	.	.	2	106	68	7	.	.	.	183
2.50-2.99	11	63	14	.	.	.	88
3.00-3.49	33	22	3	.	.	58
3.50-3.99	25	.	.	.	25
4.00-4.49	10	2	.	.	12
4.50-4.99	2	4	.	.	6
5.00-5.49	3	.	.	3
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	1	1
TOTAL	177	1068	1280	755	358	187	80	12	0	1	

MEAN HS(M) = 1.0 LARGEST HS(M)= 7.2 MEAN TP(SEC)= 4.3 NO. OF CASES= 3675.

STATION H17 44.92N 83.12W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	281	958	197	47	2	1	.	.	.	.	1486
0.50-0.99	.	633	1306	445	50	2	.	.	.	.	2436
1.00-1.49	.	.	248	486	141	10	.	.	.	.	885
1.50-1.99	.	.	.	179	26	26	.	.	.	.	410
2.00-2.49	.	.	.	205	89	44	3	1	.	.	140
2.50-2.99	.	.	.	3	8	32	6	.	.	.	46
3.00-3.49	18	9	.	.	.	27
3.50-3.99	12	.	.	.	12
4.00-4.49	3	1	.	.	4
4.50-4.99	2	1	.	.	3
5.00-5.49	2	.	.	2
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	281	1591	1751	1186	469	133	35	5	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 5.3 MEAN TP(SEC)= 4.1 NO. OF CASES= 5109.

STATION H17 44.92N 83.12W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	449	1618	760	436	121	3	.	.	.	.	3387
0.50-0.99	.	1072	2019	1018	463	84	8	.	.	.	4664
1.00-1.49	.	.	308	672	332	115	21	.	.	.	1508
1.50-1.99	.	.	.	210	238	43	18	.	.	.	522
2.00-2.49	.	.	2	3	109	63	5	1	.	.	182
2.50-2.99	17	48	13	2	1	.	80
3.00-3.49	27	12	1	.	.	40
3.50-3.99	4	7	1	1	.	13
4.00-4.49	6	.	.	.	6
4.50-4.99	2	1	.	.	3
5.00-5.49	1	1	.	.	2
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	449	2690	3089	2339	1341	397	93	7	2	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 5.4 MEAN TP(SEC)= 4.3 NO. OF CASES= 9744.

STATION H17 44.92N 83.12W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	505	1990	1257	326	84	6					4168
0.50-0.99		2107	3295	2347	581	54	2	.	.	.	8386
1.00-1.49			645	1621	1334	166	31	.	.	.	3797
1.50-1.99			28	456	960	320	51	.	.	.	1815
2.00-2.49				12	368	418	41	.	.	.	839
2.50-2.99					43	290	87	3	.	.	423
3.00-3.49						88	94	3	.	.	185
3.50-3.99						3	70	4	1	.	78
4.00-4.49							23	5	.	.	28
4.50-4.99							7	12	.	.	19
5.00-5.49							2	2	1	.	5
5.50-5.99									1	.	1
6.00-6.49									1	.	0
6.50-6.99										.	0
7.00+										.	0
TOTAL	505	4097	5225	4762	3370	1345	408	29	4	0	
MEAN HS(M) = 0.9	LARGEST HS(M)=		6.2	MEAN TP(SEC)=		4.6	NO. OF CASES=		18483.		

STATION H17 44.92N 83.12W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	441	1168	178	84	31	1	.	.	.	.	1903
0.50-0.99	.	2085	830	242	146	19	.	.	.	.	3322
1.00-1.49	.	.	514	97	150	34	5	.	.	.	800
1.50-1.99	.	.	73	121	54	40	9	.	.	.	297
2.00-2.49	.	.	1	28	35	16	22	.	.	.	102
2.50-2.99	7	20	13	1	.	.	41
3.00-3.49	7	6	3	.	.	16
3.50-3.99	2	.	6	.	.	.	8
4.00-4.49	1	.	.	.	.	2
4.50-4.99	1	.	.	.	1
5.00-5.49	1	.	.	.	1
5.50-5.99	1	.	.	1
6.00-6.49	1	.	1
6.50-6.99	1
7.00+	0
TOTAL	441	3253	1596	572	425	138	64	5	0	0	6088
MEAN HS (M) = 0.7	LARGEST HS (M) =		6.2	MEAN TP (SEC) =		3.7	NO. OF CASES =				6088.

STATION H17 44.92N 83.12W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	510	880	156	83	31	2	.	.	.	.	1662
0.50-0.99	.	1567	502	60	34	1	.	.	.	.	2164
1.00-1.49	.	.	380	17	9	2	1	.	.	.	409
1.50-1.99	.	.	71	71	4	5	.	.	.	.	151
2.00-2.49	.	.	.	24	2	3	.	.	.	.	29
2.50-2.99	.	.	.	3	3	.	.	.	.	.	6
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	510	2447	1109	258	83	13	1	0	0	0	
MEAN HS (M) = 0.6	LARGEST HS (M) =	2.8	MEAN TP (SEC) =	3.3	NO. OF CASES =	4142.					

STATION H17 44.92N 83.12W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	455	750	170	177	50	4	.	.	.	1606	
0.50-0.99	.	1171	343	86	44	21	3	.	.	1658	
1.00-1.49	.	.	256	5	14	6	.	.	.	287	
1.50-1.99	.	.	43	33	.	1	.	.	.	77	
2.00-2.49	.	.	.	6	.	.	1	.	.	7	
2.50-2.99	1	.	.	.	.	1	
3.00-3.49	0	
3.50-3.99	0	
4.00-4.49	0	
4.50-4.99	0	
5.00-5.49	0	
5.50-5.99	0	
6.00-6.49	0	
6.50-6.99	0	
7.00+	0	
TOTAL	455	1921	812	307	109	32	4	0	0	0	
MEAN HS (M) = 3.6	LARGEST HS (M) = 2.5		MEAN TP (SEC) = 3.4		NO. OF CASES = 3412.						

STATION H17 44.92N 83.12W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	610	1067	319	267	82	2					2347
0.50-0.99		1486	407	284	234	68	6				2485
1.00-1.49			374	10	41	37	14				476
1.50-1.99			70	43	2	5	7				127
2.00-2.49				10			1				11
2.50-2.99											0
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	610	2553	1170	614	359	112	28	0	0	0	
MEAN HS(M) = 0.6	LARGEST HS(M) = 2.4		MEAN TP(SEC) = 3.6		NO. OF CASES = 5103.						

STATION H17 44.82N 83.12W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	524	1152	310	157	38	2					2183
0.50-0.99		2157	636	511	390	86	2				3782
1.00-1.49			583	43	171	146	23				966
1.50-1.99			111	122	8	79	41	2			363
2.00-2.49				27		5	18				51
2.50-2.99				2	3		2	1			8
3.00-3.49					3						3
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	524	3309	1640	862	613	318	86	4	0	0	
MEAN HS (M) = 0.7	LARGEST HS (M) = 3.4		MEAN TP (SEC) = 3.9		NO. OF CASES = 6889.						

STATION H17 44.92N 83.12W AZIMUTH(DEGREES) -315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	251	889	282	77	20	.	.	.	.	.	1519
0.50-0.99	.	1817	1050	642	241	16	.	.	.	.	3866
1.00-1.49	.	.	814	185	410	160	6	1	.	.	1576
1.50-1.99	.	.	155	349	134	301	60	.	.	.	999
2.00-2.49	.	.	.	75	21	82	112	2	.	.	292
2.50-2.99	.	.	.	6	13	7	32	4	1	.	63
3.00-3.49	3	.	3	4	.	.	10
3.50-3.99	1	.	.	1	.	.	2
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	251	2806	2301	1334	843	566	213	12	1	0	
MEAN HS (M) = 0.9	LARGEST HS (M) = 3.9		MEAN TP (SEC) = 4.3		NO. OF CASES = 7800.						

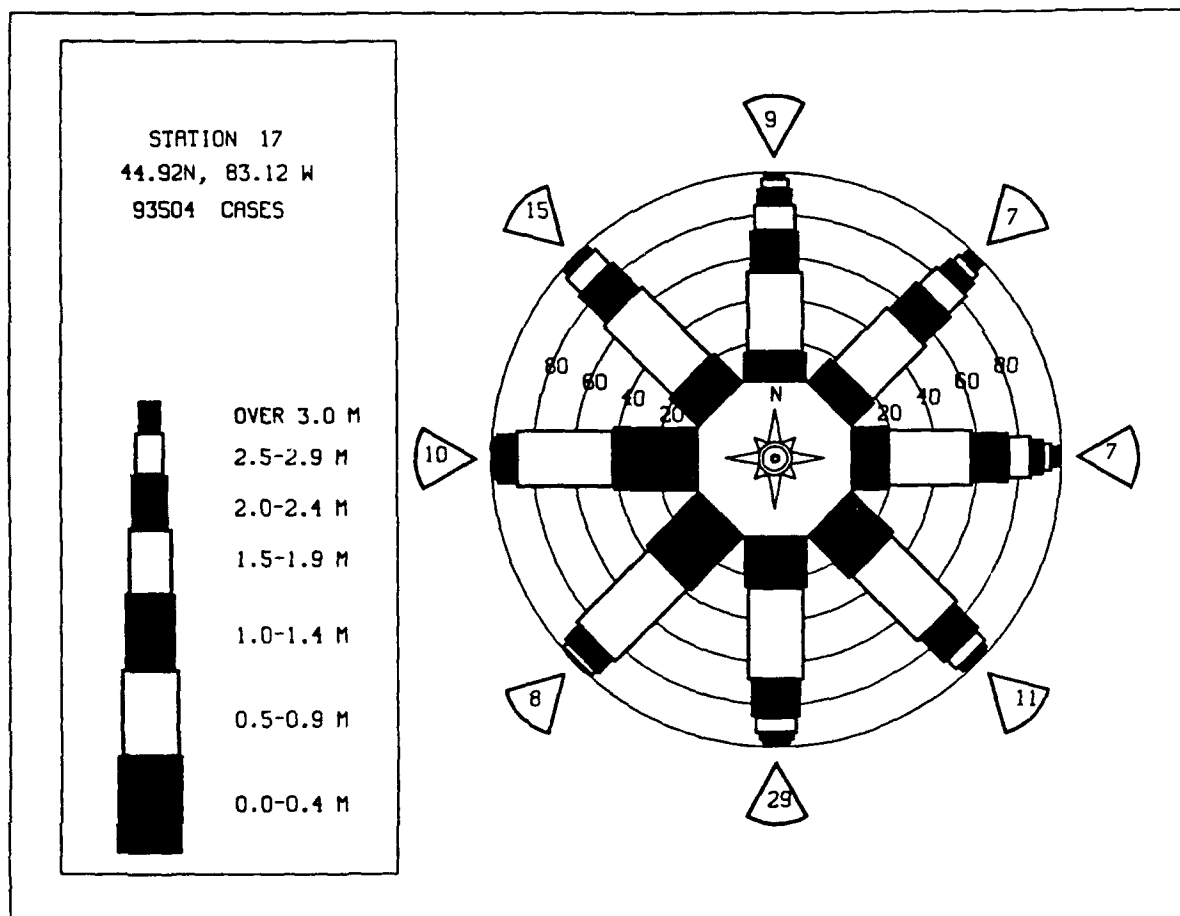
STATION H17 44.92N 83.12W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0~ 3.9	4.0~ 4.9	5.0~ 5.9	6.0~ 6.9	7.0~ 7.9	8.0~ 8.9	9.0~ 9.9	10.0~ 10.9	11.0~ LONGER	
0.00-0.49	174	485	126	29	2	1	.	.	.	.	817
0.50-0.99	.	839	902	455	73	4	.	.	.	.	2273
1.00-1.49	.	.	332	329	308	48	.	.	.	.	1017
1.50-1.99	.	.	42	237	209	129	8	.	.	.	625
2.00-2.49	.	.	.	24	165	125	51	.	.	.	365
2.50-2.99	24	83	21	1	.	.	129
3.00-3.49	35	4	2	.	.	43
3.50-3.99	1	2	13	4	.	.	20
4.00-4.49	4	1	.	.	5
4.50-4.99	3	.	.	.	3
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	174	1324	1402	1074	784	427	104	8	0	0	4967
MEAN HS(M) = 1.0	LARGEST HS(M)= 4.9		MEAN TP(SEC)= 4.5		NO. OF CASES=		4967.				

STATION H17 44.92N 83.12W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	513	1343	410	175	47	2	2	.	.	.	2490
0.50-0.99	.	1756	1629	745	230	36	10	.	.	.	4398
1.00-1.49	.	.	561	596	358	73	19	.	.	.	1598
1.50-1.99	.	.	61	306	321	106	27	.	.	.	813
2.00-2.49	.	.	.	24	194	106	24	1	.	.	351
2.50-2.99	.	.	.	1	31	122	33	1	.	.	179
3.00-3.49	58	33	1	.	.	82
3.50-3.99	5	14	1	.	.	39
4.00-4.49	5	2	.	.	15
4.50-4.99	1	2	.	.	7
5.00-5.49	1	.	.	3
5.50-5.99	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	513	3099	2661	1847	1181	508	158	9	0	0	

MEAN HS(M)= 0.9 LARGEST HS(M)= 7.2 MEAN TP(SEC)= 4.2 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H17 (44.92N 83.12W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	1.0	0.7	0.9	0.8	0.8	0.7	0.5	0.5	0.6	0.9	0.8	0.7	0.8
1957	0.7	0.7	0.8	0.8	0.9	0.7	0.5	0.6	0.6	0.8	0.9	0.9	0.7
1958	1.0	1.1	0.7	1.0	1.0	1.0	0.7	0.7	1.2	1.3	1.4	1.1	1.0
1959	1.3	1.3	1.3	1.5	1.5	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.1
1960	1.1	1.1	1.0	1.0	1.1	0.8	0.6	0.6	0.6	0.7	0.8	0.8	0.8
1961	1.0	0.9	1.4	1.1	0.9	0.9	0.9	0.9	0.8	0.9	1.0	1.0	0.8
1962	1.0	0.9	0.8	0.8	0.9	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8
1963	0.9	0.9	1.0	1.2	1.0	0.9	0.7	0.7	0.7	0.8	0.9	0.9	0.9
1964	1.1	1.1	1.0	0.9	0.9	0.9	0.9	0.8	0.7	0.8	0.9	0.9	0.9
1965	0.9	0.8	1.2	1.0	0.9	0.6	0.6	0.6	0.7	0.8	0.9	0.8	0.8
1966	1.0	1.1	0.9	1.0	0.9	0.6	0.5	0.6	0.7	1.0	0.7	0.9	0.8
1967	1.0	0.8	0.9	1.0	0.9	0.8	0.7	0.6	0.7	0.8	1.0	1.3	0.9
1968	0.9	0.7	0.8	1.0	0.8	0.7	0.6	0.5	0.6	0.7	0.7	1.0	0.8
1969	0.7	1.0	0.9	1.1	1.0	0.8	0.8	0.6	0.7	0.9	1.1	1.1	0.9
1970	0.9	1.0	1.0	0.9	0.8	0.6	0.6	0.5	0.5	0.7	0.8	0.8	0.8
1971	0.9	0.7	1.0	0.8	0.6	0.6	0.6	0.5	0.5	0.7	0.7	0.8	0.8
1972	0.9	0.7	1.0	0.8	0.6	0.6	0.4	0.5	0.5	0.7	0.7	0.8	0.8
1973	0.9	0.8	1.0	1.2	0.8	0.6	0.6	0.6	0.6	0.8	0.9	1.0	0.8
1974	0.8	0.8	1.0	0.9	0.8	0.8	0.6	0.6	0.7	0.8	0.8	0.9	0.8
1975	1.0	0.8	1.0	1.1	0.7	0.7	0.6	0.7	0.8	0.8	1.0	1.0	0.9
1976	1.1	1.1	1.4	1.1	0.9	0.7	0.8	0.7	0.8	0.9	0.8	0.9	0.9
1977	0.9	1.2	1.0	1.0	0.9	1.0	0.9	0.8	0.9	1.0	1.0	1.2	1.0
1978	1.3	0.8	0.9	1.2	0.9	0.8	0.8	0.7	0.9	0.9	1.0	1.0	0.9
1979	1.1	1.1	1.0	1.2	1.0	0.9	0.7	0.8	0.8	1.1	1.0	1.0	1.0
1980	0.9	0.8	1.2	1.0	0.7	0.9	0.6	0.6	0.8	0.9	1.0	1.0	0.9
1981	0.8	1.1	1.0	1.3	1.0	0.7	0.7	0.6	0.8	0.9	0.8	0.9	0.9
1982	1.2	0.9	1.1	1.1	0.8	0.6	0.7	0.6	0.7	0.8	0.8	0.9	0.9
1983	1.0	1.0	1.2	1.2	0.9	0.7	0.6	0.6	0.7	0.9	1.1	1.4	0.9
1984	0.9	1.0	1.2	1.3	0.9	0.8	0.5	0.5	0.7	0.8	1.1	1.0	0.9
1985	1.0	0.9	1.4	1.0	0.9	0.8	0.8	0.7	0.8	0.9	1.1	1.1	0.9
1986	1.2	1.0	1.1	1.2	0.8	0.9	0.7	0.7	0.7	0.8	1.1	0.9	0.9
1987	1.1	0.9	1.0	1.4	1.0	0.9	0.9	1.0	0.9	0.9	1.1	1.1	1.0
MEAN	1.0	0.9	1.0	1.1	0.9	0.8	0.7	0.7	0.7	0.9	1.0	1.0	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H17 (44.92N 83.12W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.4	2.9	6.3	4.0	3.0	1.9	1.8	1.6	2.3	3.2	2.5	1.8	
1957	2.7	2.8	3.7	3.3	3.3	2.7	2.4	2.4	3.3	3.3	4.3	3.6	
1958	4.1	4.1	2.6	4.8	4.5	4.2	2.5	2.7	3.8	4.4	6.2	3.7	
1959	3.7	6.5	4.4	5.2	6.2	3.5	4.2	4.7	3.3	4.4	4.3	3.9	
1960	4.9	3.9	5.6	3.4	5.0	3.3	2.5	1.7	1.9	3.7	4.9	3.4	
1961	3.1	3.6	3.3	3.3	2.7	2.9	2.7	2.1	2.1	3.9	3.7	2.7	
1962	4.3	3.3	3.3	3.3	3.5	2.2	2.2	2.2	4.4	2.3	3.7	3.7	
1963	3.9	3.5	5.0	3.2	3.8	2.3	2.1	2.2	4.0	2.3	4.1	3.1	
1964	3.8	2.6	4.3	4.3	4.2	3.0	2.8	3.3	3.2	2.8	4.1	4.1	
1965	4.5	3.8	3.2	3.2	2.6	3.3	3.0	3.3	3.3	3.1	3.5	3.5	
1966	2.8	3.5	4.1	3.7	2.7	2.1	2.2	2.5	3.3	3.3	3.3	2.5	
1967	3.9	3.3	3.4	3.4	3.4	1.7	1.6	2.2	3.4	3.3	2.2	3.8	
1968	3.8	2.8	3.3	4.7	4.1	3.3	2.2	2.2	3.0	3.4	4.1	3.7	
1969	2.4	2.2	4.0	4.6	2.7	2.2	2.0	2.6	3.3	3.4	2.5	3.8	
1970	1.9	3.0	3.8	3.6	3.7	3.3	2.2	2.6	2.3	3.4	4.1	3.5	
1971	4.5	3.3	3.3	3.0	3.4	1.8	1.8	1.1	1.9	3.3	3.3	2.2	
1972	3.8	2.6	4.4	3.0	2.0	2.7	1.3	1.4	1.4	3.4	3.4	3.4	
1973	3.0	3.3	3.3	3.3	3.3	3.3	1.1	1.1	1.1	3.3	3.3	3.3	
1974	3.0	2.2	3.3	3.3	3.3	2.2	2.2	2.2	3.3	3.3	3.3	3.3	
1975	3.0	3.3	4.1	4.9	2.2	1.8	1.1	1.1	1.1	3.3	3.3	3.3	
1976	3.0	3.3	4.4	4.1	2.2	2.2	3.3	3.3	3.3	3.3	3.3	3.3	
1977	3.0	3.3	4.4	4.4	2.2	2.2	3.3	3.3	3.3	3.3	3.3	3.3	
1978	3.0	3.3	4.4	4.4	2.2	2.2	3.3	3.3	3.3	3.3	3.3	3.3	
1979	3.0	3.3	4.4	4.4	2.2	2.2	3.3	3.3	3.3	3.3	3.3	3.3	
1980	3.0	3.3	4.4	4.4	2.2	2.2	3.3	3.3	3.3	3.3	3.3	3.3	
1981	3.0	3.3	4.4	4.4	2.2	2.2	3.3	3.3	3.3	3.3	3.3	3.3	
1982	3.0	3.3	4.4	4.4	2.2	2.2	3.3	3.3	3.3	3.3	3.3	3.3	
1983	3.0	3.3	4.4	4.4	2.2	2.2	3.3	3.3	3.3	3.3	3.3	3.3	
1984	3.0	3.3	4.4	4.4	2.2	2.2	3.3	3.3	3.3	3.3	3.3	3.3	
1985	3.0	3.3	4.4	4.4	2.2	2.2	3.3	3.3	3.3	3.3	3.3	3.3	
1986	3.0	3.3	4.4	4.4	2.2	2.2	3.3	3.3	3.3	3.3	3.3	3.3	
1987	3.0	3.3	4.4	4.4	2.2	2.2	3.3	3.3	3.3	3.3	3.3	3.3	

32 YR. STATISTICS FOR WIS STATION H17

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.9
MEAN PEAK WAVE PERIOD	(SECONDS)	4.2
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	180.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.6
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.4
LARGEST WAVE HS	(METERS)	7.2
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	102.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		65031803

STATION H18 45.07N 83.12W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	156	396	73	18							643
0.50-0.99		438	1120	320	12						1890
1.00-1.49			236	630	103	1					970
1.50-1.99			2	409	319	6					736
2.00-2.49				11	455	22					488
2.50-2.99					111	134	1				246
3.00-3.49						58	1				59
3.50-3.99						9	4				13
4.00-4.49						1	11				12
4.50-4.99							1				1
5.00-5.49							2				2
5.50-5.99											0
6.00-6.49								1			1
6.50-6.99											0
7.00+											0
TOTAL	156	834	1431	1388	1000	231	20	1	0	0	4746

MEAN HS(M) = 1.2 LARGEST HS(M)= 6.8 MEAN TP(SEC)= 4.6 NO. OF CASES= 4746.

STATION H18 45.07N 83.12W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	142	398	53	14							607
0.50-0.99		413	722	202	9	2					1348
1.00-1.49			172	378	66	3					619
1.50-1.99			4	180	175	3					362
2.00-2.49				3	180	13					196
2.50-2.99					34	84	2				120
3.00-3.49					1	29	4				34
3.50-3.99						12	11				23
4.00-4.49							9				9
4.50-4.99							1				1
5.00-5.49							1				1
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	142	811	951	777	465	146	29	0	0	0	3119

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.6 MEAN TP(SEC)= 4.4 NO. OF CASES= 3119.

STATION H18 45.07N 83.12W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	162	396	55	9							622
0.50-0.99		405	773	202	13						1393
1.00-1.49			167	475	87	1					730
1.50-1.99				233	274	7					514
2.00-2.49				3	283	24					310
2.50-2.99					48	147	4				199
3.00-3.49						83	11				94
3.50-3.99						11	29				40
4.00-4.49							16				16
4.50-4.99							8				9
5.00-5.49							3				3
5.50-5.99								2	1		3
6.00-6.49									1		0
6.50-6.99											1
7.00+											0
TOTAL	162	801	995	922	705	273	71	3	2	0	3692

MEAN HS(M) = 1.2 LARGEST HS(M)= 6.6 MEAN TP(SEC)= 4.6 NO. OF CASES= 3692.

STATION H18 45.07N 83.12W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	95	273	43	7							418
0.50-0.99		358	604	151	5	1					1119
1.00-1.49			135	301	64	2					502
1.50-1.99				187	211	2					400
2.00-2.49				4	173	26	2				205
2.50-2.99					21	105	5				131
3.00-3.49						69	9				78
3.50-3.99						4	36				40
4.00-4.49							16				16
4.50-4.99							5				6
5.00-5.49							2				4
5.50-5.99								2			2
6.00-6.49								1			1
6.50-6.99											0
7.00+											0
TOTAL	95	631	782	650	474	209	75	6	0	0	2744

MEAN HS(M) = 1.2 LARGEST HS(M)= 6.3 MEAN TP(SEC)= 4.6 NO. OF CASES= 2744.

STATION H18 45.07N 83.12W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	132	324	50	6	.	.	.	.	.	.	512
0.50-0.99	.	407	649	168	4	.	.	.	.	.	1228
1.00-1.49	.	.	188	327	79	1	.	.	.	.	595
1.50-1.99	.	.	1	205	176	18	.	.	.	.	400
2.00-2.49	.	.	.	2	173	49	7	.	.	.	231
2.50-2.99	24	125	16	.	.	.	165
3.00-3.49	53	27	.	.	.	80
3.50-3.99	2	44	.	.	.	46
4.00-4.49	24	.	.	.	24
4.50-4.99	6	3	.	.	9
5.00-5.49	1	4	.	.	5
5.50-5.99	4	.	.	4
6.00-6.49	1	.	.	1
6.50-6.99	1	.	1
7.00+	0
TOTAL	132	731	888	708	456	248	125	12	1	0	

MEAN HS(M) = 1.2 LARGEST HS(M)= 6.5 MEAN TP(SEC)= 4.6 NO. OF CASES= 3097.

STATION H18 45.07N 83.12W AZIMUTH(DEGREES) = 112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	143	424	35	4	.	.	.	.	.	.	606
0.50-0.99	.	563	935	159	2	.	.	.	.	.	1659
1.00-1.49	.	.	248	427	99	.	.	.	.	.	774
1.50-1.99	.	.	.	197	175	21	.	.	.	.	393
2.00-2.49	.	.	.	1	127	57	9	.	.	.	194
2.50-2.99	20	99	17	.	.	.	136
3.00-3.49	33	28	1	.	.	62
3.50-3.99	1	32	2	.	.	35
4.00-4.49	18	1	.	.	19
4.50-4.99	2	5	.	.	7
5.00-5.49	4	.	.	4
5.50-5.99	2	.	.	2
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	143	987	1218	788	423	211	106	15	1	0	

MEAN HS(M) = 1.1 LARGEST HS(M)= 7.0 MEAN TP(SEC)= 4.4 NO. OF CASES= 3650.

STATION H18 45.07N 83.12W AZIMUTH(DEGREES) = 135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	264	817	172	49	1	.	.	.	.	.	1303
0.50-0.99	.	684	1336	441	45	3	.	.	.	.	2509
1.00-1.49	.	1	315	518	179	5	.	.	.	.	1018
1.50-1.99	.	.	2	273	204	43	.	.	.	.	522
2.00-2.49	.	.	.	4	140	51	4	.	.	.	199
2.50-2.99	17	64	5	.	.	.	86
3.00-3.49	19	20	.	.	.	39
3.50-3.99	16	.	.	.	16
4.00-4.49	7	.	.	.	8
4.50-4.99	1	1	1	.	2
5.00-5.49	1	.	.	1
5.50-5.99	0
6.00-6.49	1	.	1
6.50-6.99	0
7.00+	0
TOTAL	264	1502	1825	1285	586	185	53	2	2	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 6.3 MEAN TP(SEC)= 4.2 NO. OF CASES= 5344.

STATION H18 45.07N 83.12W AZIMUTH(DEGREES) = 157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	429	1621	729	418	102	.	1	.	.	.	3300
0.50-0.99	.	1155	2056	1080	504	93	8	.	.	.	4896
1.00-1.49	.	.	297	756	466	162	26	.	.	.	1707
1.50-1.99	.	.	4	241	282	72	28	3	.	.	630
2.00-2.49	.	.	.	4	118	80	14	1	.	.	217
2.50-2.99	14	48	20	3	.	.	86
3.00-3.49	28	18	1	1	.	48
3.50-3.99	2	14	1	1	.	18
4.00-4.49	5	1	.	.	6
4.50-4.99	1	.	.	.	2
5.00-5.49	1	.	.	.	1
5.50-5.99	1	.	.	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	429	2776	3086	2499	1486	485	136	12	3	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 5.8 MEAN TP(SEC)= 4.4 NO. OF CASES= 10219.

STATION H18 45.07N 83.12W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	517	1887	1402	409	81	8	.	.	.	.	4304
0.50-0.99	.	2075	3116	2736	792	65	6	.	.	.	8790
1.00-1.49	.	.	586	1359	1533	216	31	.	.	.	3725
1.50-1.99	.	.	23	440	829	434	64	1	.	.	1791
2.00-2.49	.	.	.	8	271	410	73	4	.	.	766
2.50-2.99	49	212	127	5	.	.	393
3.00-3.49	53	90	2	.	.	146
3.50-3.99	4	21	8	.	.	68
4.00-4.49	5	10	1	.	32
4.50-4.99	3	9	1	.	15
5.00-5.49	1	1	.	5
5.50-5.99	0
6.00-6.49	1	.	1
6.50-6.99	0
7.00+	0
TOTAL	517	3962	5127	4952	3555	1402	476	40	5	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 6.4 MEAN TP(SEC)= 4.7 NO. OF CASES= 18753.

STATION H18 45.07N 83.12W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	407	996	204	80	32	1	.	.	.	.	1720
0.50-0.99	.	1937	735	186	134	24	1	.	.	.	3017
1.00-1.49	.	.	462	85	85	29	3	.	.	.	684
1.50-1.99	.	.	66	108	65	27	11	1	.	.	278
2.00-2.49	.	.	.	22	40	22	21	.	.	.	105
2.50-2.99	.	.	.	1	5	14	10	1	.	.	31
3.00-3.49	3	6	7	.	.	.	16
3.50-3.99	1	.	1	.	.	.	9
4.00-4.49	0
4.50-4.99	1	.	.	.	1
5.00-5.49	0
5.50-5.99	1	.	.	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	407	2933	1467	482	365	123	60	5	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 5.7 MEAN TP(SEC)= 3.7 NO. OF CASES= 5477.

STATION H18 45.07N 83.12W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	473	807	166	82	20	.	.	.	.	.	1548
0.50-0.99	.	1481	520	82	43	4	.	.	.	.	2130
1.00-1.49	.	.	355	13	20	2	2	.	.	.	392
1.50-1.99	.	.	49	79	6	5	2	.	.	.	141
2.00-2.49	.	.	.	19	2	2	3	.	.	.	26
2.50-2.99	.	.	.	1	1	.	.	.	.	.	2
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	473	2288	1090	276	92	13	7	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.6 MEAN TP(SEC)= 3.4 NO. OF CASES= 3972.

STATION H18 45.07N 83.12W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	395	699	177	182	35	1	.	.	.	.	1489
0.50-0.99	.	1099	297	97	77	16	1	.	.	.	1587
1.00-1.49	.	.	217	12	8	4	.	.	.	.	241
1.50-1.99	.	.	40	19	1	3	.	.	.	.	63
2.00-2.49	.	.	.	6	.	.	1	.	.	.	7
2.50-2.99	1	.	.	.	.	.	2
3.00-3.49	1	.	.	.	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	395	1798	731	316	122	24	3	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.5 MEAN TP(SEC)= 3.4 NO. OF CASES= 3176.

STATION H18 45.07N 83.12W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	553	1135	409	259	37						2393
0.50-0.99		1405	417	374	298	49					2543
1.00-1.49			342	28	86	53	8				517
1.50-1.99			63	32	7	18	5	1			126
2.00-2.49				13			4				17
2.50-2.99											0
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	553	2540	1231	706	428	120	17	1	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.3 MEAN TP(SEC)= 3.7 NO. OF CASES= 5242.

STATION H18 45.07N 83.12W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	534	1118	377	139	18						2186
0.50-0.99		2187	728	703	355	22					3995
1.00-1.49			515	139	366	127	6				1153
1.50-1.99			111	97	88	179	32				507
2.00-2.49				21	2	51	71				145
2.50-2.99					2	1	16	5			24
3.00-3.49					1		1	2			4
3.50-3.99					1						1
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	534	3305	1731	1099	833	380	126	7	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.5 MEAN TP(SEC)= 4.0 NO. OF CASES= 7504.

STATION H18 45.07N 83.12W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	279	863	236	103	10						1491
0.50-0.99		1944	978	648	160	8					3738
1.00-1.49			607	413	496	74	3				1593
1.50-1.99			162	252	371	236	10				1031
2.00-2.49				62	43	287	80	1			473
2.50-2.99				3	5	23	89	2			122
3.00-3.49					2	1	29	2			34
3.50-3.99							3	3			6
4.00-4.49								1	1		2
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	279	2807	1983	1481	1087	629	214	9	1	0	

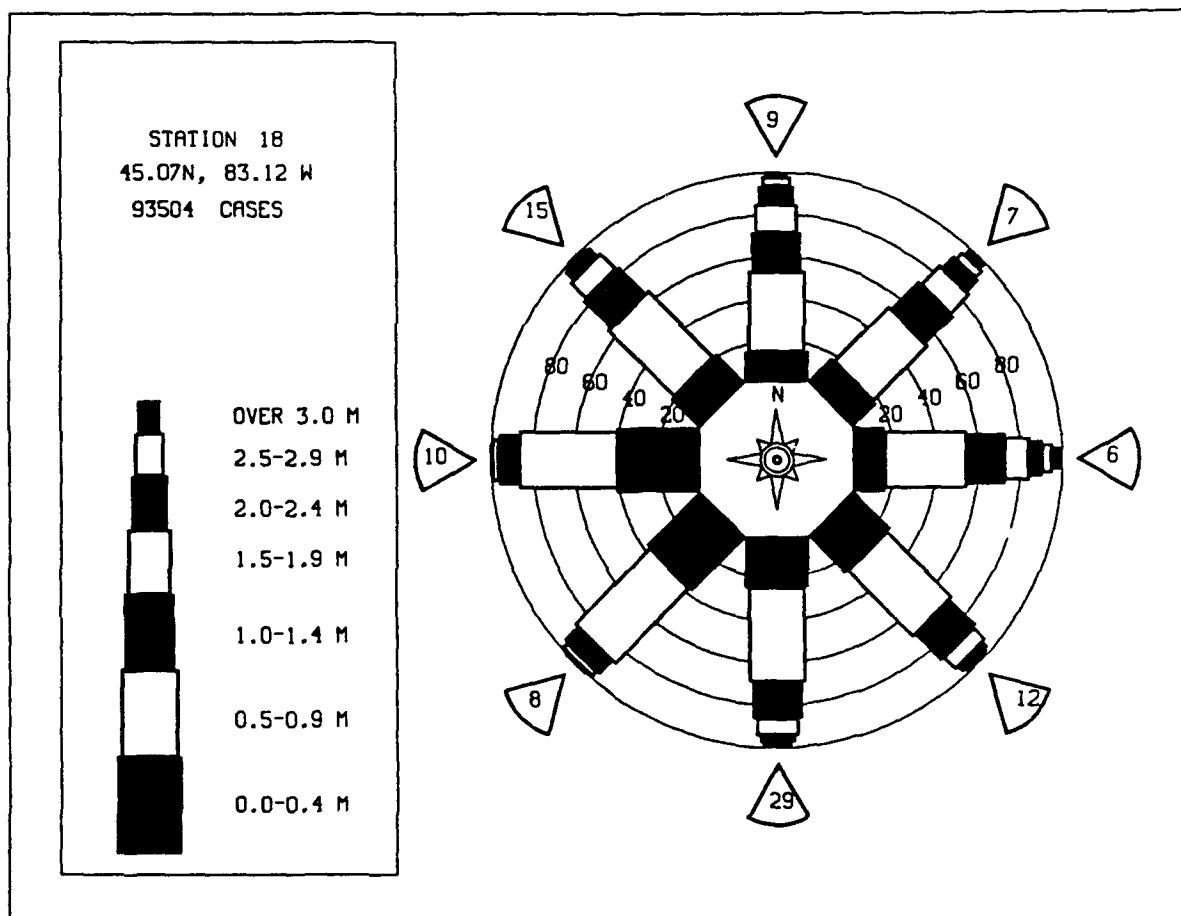
MEAN HS(M) = 1.0 LARGEST HS(M)= 4.1 MEAN TP(SEC)= 4.4 NO. OF CASES= 7952.

STATION H18 45.07N 83.12W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	154	472	102	18	1						747
0.50-0.99		679	957	413	27						2076
1.00-1.49			239	444	253	16					972
1.50-1.99			27	239	303	18	1				628
2.00-2.49				19	116	116	4				431
2.50-2.99					45	113	36				196
3.00-3.49					1	36	20	1			58
3.50-3.99						5	13	5			19
4.00-4.49							4				8
4.50-4.99											0
5.00-5.49											0
5.50-5.99								1			1
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	154	1151	1345	1133	862	406	78	8	0	0	

MEAN HS(M) = 1.1 LARGEST HS(M)= 5.8 MEAN TP(SEC)= 4.6 NO. OF CASES= 4817.

STATION H18 45.07N 83.12W FOR ALL DIRECTIONS											
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	484	1263	429	180	34	1	.	.	.	.	2391
0.50-0.99	.	1723	1595	796	248	28	18	.	.	.	4391
1.00-1.49	.	.	510	631	399	70	15	.	.	.	1616
1.50-1.99	.	.	55	319	349	113	29	.	.	.	851
2.00-2.49	.	.	.	20	224	127	35	1	.	.	400
2.50-2.99	40	117	27	1	.	.	193
3.00-3.49	47	27	1	.	.	75
3.50-3.99	5	13	1	.	.	33
4.00-4.49	3	2	.	.	14
4.50-4.99	1	1	.	.	5
5.00-5.49	1	.	.	2
5.50-5.99	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	484	2986	2589	1946	1294	508	159	8	0	0	
MEAN HS(M)= 0.9 LARGEST HS(M)= 7.0 MEAN TP(SEC)= 4.3 TOTAL CASES= 93504.											



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H18 (45.07N 83.12W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	1.0	0.8	1.0	0.8	0.8	0.7	0.5	0.5	0.6	0.9	0.9	0.8	0.8
1957	0.8	0.7	0.8	0.8	0.9	0.7	0.5	0.5	0.6	0.8	1.0	1.0	0.8
1958	1.0	1.1	0.7	1.0	0.9	1.0	0.7	0.8	1.2	1.3	1.4	1.0	1.0
1959	1.2	1.4	1.3	1.3	1.4	1.1	1.1	1.0	1.0	1.2	1.1	1.2	1.0
1960	1.1	1.2	1.0	1.0	1.1	0.8	0.6	0.6	0.6	0.7	1.2	1.0	0.9
1961	0.9	1.0	1.4	1.1	1.0	0.8	0.6	0.6	0.7	0.9	0.9	0.8	0.8
1962	1.0	0.9	0.8	0.9	0.9	0.7	0.7	0.6	0.8	0.7	0.8	1.0	0.8
1963	0.8	0.8	1.0	1.1	0.9	0.7	0.7	0.7	0.7	0.7	0.8	0.9	0.8
1964	1.1	0.8	1.2	1.4	1.0	0.7	0.7	0.8	0.7	0.8	0.9	0.9	0.8
1965	1.0	1.1	1.0	0.9	0.9	0.9	0.7	0.8	1.0	0.8	0.9	0.9	0.8
1966	1.0	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1967	1.0	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1968	1.0	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8	1.0	1.3	0.9
1969	0.9	0.7	0.8	1.0	0.7	0.7	0.6	0.5	0.6	0.7	0.7	0.9	0.8
1970	0.7	1.0	0.8	1.1	1.0	0.8	0.8	0.6	0.7	0.9	1.1	1.0	0.9
1971	0.9	1.0	1.0	0.9	0.8	0.6	0.6	0.5	0.5	0.7	0.8	0.9	0.8
1972	0.9	0.7	1.0	0.8	0.6	0.6	0.4	0.5	0.5	0.7	0.7	0.8	0.7
1973	0.9	0.8	1.0	1.2	0.9	0.6	0.6	0.5	0.6	0.8	0.9	1.0	0.8
1974	0.8	0.8	1.0	0.9	0.8	0.8	0.6	0.6	0.7	0.8	0.8	0.9	0.8
1975	1.1	0.9	1.1	1.2	0.7	0.8	0.7	0.7	0.8	1.0	1.0	1.0	0.9
1976	1.1	1.2	1.4	1.1	1.0	0.8	0.8	0.7	0.8	0.9	0.8	1.0	0.8
1977	1.0	1.2	1.0	1.1	1.0	1.0	0.8	0.8	1.0	1.1	1.1	1.2	1.0
1978	1.3	0.8	0.9	1.3	1.0	0.9	0.8	0.8	0.9	0.9	1.1	1.0	0.9
1979	1.1	1.1	1.1	1.2	1.0	1.0	0.8	0.8	0.8	1.0	1.0	1.0	0.9
1980	1.0	0.9	1.2	1.0	0.8	0.9	0.7	0.7	0.8	0.9	1.0	1.0	0.8
1981	0.8	1.1	1.0	1.4	0.8	0.8	0.7	0.6	0.8	0.9	0.8	0.9	0.8
1982	1.0	0.9	1.2	1.2	0.8	0.7	0.8	0.7	0.8	0.9	0.8	1.0	0.8
1983	1.0	1.0	1.3	1.4	1.0	0.8	0.7	0.7	0.7	0.8	1.0	1.0	0.9
1984	1.0	1.0	1.4	1.4	1.0	0.9	0.8	0.7	0.8	0.8	1.1	1.0	0.9
1985	1.2	1.0	1.2	1.3	1.0	0.9	0.8	0.7	0.8	0.8	1.1	1.0	1.0
1986	1.1	1.0	1.1	1.4	1.0	0.9	0.8	0.7	0.8	0.8	1.1	1.1	1.0
1987	1.1	1.0	1.1	1.4	1.0	0.9	0.8	1.0	0.9	0.9	1.1	1.1	1.0
MEAN	1.0	1.0	1.1	1.1	0.9	0.8	0.7	0.7	0.8	0.9	1.0	1.0	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H18 (45.07N 83.12W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.3	3.0	6.6	3.7	2.8	2.2	1.6	1.3	2.3	3.0	2.6	1.9	
1957	2.4	3.0	2.4	3.8	3.4	2.7	1.7	2.3	3.1	3.7	4.0	3.8	
1958	3.5	4.1	2.3	4.4	4.7	4.4	2.3	2.5	3.3	4.4	5.7	3.3	
1959	3.5	6.3	4.5	4.6	6.4	3.5	4.4	4.7	3.1	4.3	4.2	4.0	
1960	4.4	4.9	5.1	3.3	4.6	3.3	2.2	1.9	1.1	3.9	4.7	3.3	
1961	1.1	3.8	5.3	3.5	2.9	2.5	2.2	1.6	1.1	3.7	3.8	2.8	
1962	3.9	3.1	3.3	3.3	3.2	2.2	2.7	1.6	3.3	2.2	3.4	3.3	
1963	3.3	3.4	3.3	3.3	3.6	2.2	2.5	3.3	4.2	2.4	4.0	3.3	
1964	4.0	2.5	3.3	4.4	4.0	2.8	2.8	3.3	3.2	2.6	3.4	3.3	
1965	3.4	3.6	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.4	3.3	
1966	3.3	3.1	3.4	3.3	3.5	2.2	2.2	3.3	3.3	3.3	3.3	3.3	
1967	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	
1968	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	
1969	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	
1970	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	
1971	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	
1972	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	
1973	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	
1974	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	
1975	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	
1976	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	
1977	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	
1978	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	
1979	2.2	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	
1980	2.2	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	
1981	2.2	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	
1982	2.2	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	
1983	2.2	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	
1984	2.2	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	
1985	2.2	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	
1986	2.2	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	
1987	2.2	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	

32 YR. STATISTICS FOR WIS STATION H18

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.9
MEAN PEAK WAVE PERIOD	(SECONDS)	4.3
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	180.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.6
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.4
LARGEST WAVE HS	(METERS)	7.0
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	10.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	105.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		65031803

STATION H19 45.20N 83.12W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	136	460	69	8	.	.	.	.	.	.	673
0.50-0.99	.	429	1142	263	4	.	.	.	.	.	1838
1.00-1.49	.	.	233	639	56	.	.	.	.	.	928
1.50-1.99	.	.	1	469	206	.	.	.	.	.	676
2.00-2.49	.	.	.	3	409	5	.	.	.	.	417
2.50-2.99	95	25	.	.	.	.	120
3.00-3.49	26	.	.	.	.	26
3.50-3.99	9	.	.	.	.	11
4.00-4.49	1	2	.	.	.	2
4.50-4.99	1	1	.	.	.	2
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	136	889	1445	1382	770	66	4	0	0	0	4397.

MEAN HS(M) = 1.1 LARGEST HS(M)= 4.5 MEAN TP(SEC)= 4.4 NO. OF CASES= 4397.

STATION H19 45.20N 83.12W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	151	412	53	6	.	.	.	.	.	.	622
0.50-0.99	.	392	753	186	4	.	.	.	.	.	1335
1.00-1.49	.	.	183	403	55	.	.	.	.	.	641
1.50-1.99	.	.	1	193	172	3	.	.	.	.	369
2.00-2.49	.	.	.	6	187	14	.	.	.	.	207
2.50-2.99	31	53	.	.	.	.	85
3.00-3.49	29	1	.	.	.	30
3.50-3.99	7	10	.	.	.	17
4.00-4.49	9	.	.	.	9
4.50-4.99	1	.	.	.	1
5.00-5.49	1	1	.	.	2
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	151	804	990	794	449	106	23	1	0	0	3114.

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.4 MEAN TP(SEC)= 4.3 NO. OF CASES= 3114.

STATION H19 45.20N 83.12W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	155	416	59	6	.	.	.	.	.	.	636
0.50-0.99	.	408	748	159	4	.	.	.	.	.	1319
1.00-1.49	.	1	146	511	45	.	.	.	.	.	703
1.50-1.99	.	.	.	223	243	6	.	.	.	.	472
2.00-2.49	.	.	.	1	249	25	.	.	.	.	275
2.50-2.99	42	136	5	.	.	.	183
3.00-3.49	1	80	10	.	.	.	91
3.50-3.99	11	38	.	.	.	49
4.00-4.49	14	.	.	.	14
4.50-4.99	6	1	.	.	7
5.00-5.49	3	3	.	.	6
5.50-5.99	1	1	.	2
6.00-6.49	0
6.50-6.99	1	1	1
7.00+	1
TOTAL	155	825	953	900	584	258	76	5	2	1	3528.

MEAN HS(M) = 1.2 LARGEST HS(M)= 7.5 MEAN TP(SEC)= 4.6 NO. OF CASES= 3528.

STATION H19 45.20N 83.12W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	101	265	32	2	.	.	.	.	.	.	400
0.50-0.99	.	325	590	168	1	.	.	.	.	.	1084
1.00-1.49	.	.	136	320	59	1	.	.	.	.	516
1.50-1.99	.	.	.	188	204	5	.	.	.	.	397
2.00-2.49	.	.	.	5	181	33	.	.	.	.	219
2.50-2.99	23	105	3	.	.	.	131
3.00-3.49	1	73	7	.	.	.	81
3.50-3.99	4	24	.	.	.	28
4.00-4.49	12	.	.	.	12
4.50-4.99	5	.	.	.	5
5.00-5.49	2	3	.	.	5
5.50-5.99	2	.	.	3
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	101	590	758	683	469	221	53	9	0	0	2709.

MEAN HS(M) = 1.2 LARGEST HS(M)= 5.8 MEAN TP(SEC)= 4.6 NO. OF CASES= 2709.

PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION										TOTAL	
PEAK PERIOD(SECONDS)											
HEIGHT(METRES)	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	395	1706	721	376	84	1	1	.	.	.	
0.50-0.99	.	1148	2143	1201	497	97	9	.	.	.	
1.00-1.49	.	.	278	778	529	159	33	.	.	.	
1.50-1.99	.	.	5	259	281	114	32	1	.	.	
2.00-2.49	.	.	.	2	139	83	20	2	.	.	
2.50-2.99	17	62	22	1	1	.	
3.00-3.49	26	23	5	2	.	
3.50-3.99	1	20	2	.	.	
4.00-4.49	1	9	1	1	.	
4.50-4.99	1	.	.	.	
5.00-5.49	1	.	.	.	
5.50-5.99	1	.	
6.00-6.49	
6.50-6.99	
7.00+	
TOTAL	395	2854	3147	2616	1547	544	171	12	5	0	
MEAN HS(M) = 0.8	LARGEST HS(M)=		6.2		MEAN TP(SEC)=		4.4		NO. OF CASES=		10571.

STATION H19 45.20N 83.12W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	489	1871	1683	432	99	7	.	.	.	.	4581
0.50-0.99	.	1943	2889	2972	864	70	8	.	.	.	8746
1.00-1.49	.	.	573	1099	1678	213	37	.	.	.	3600
1.50-1.99	.	.	27	429	735	517	71	2	.	.	1781
2.00-2.49	.	.	.	9	257	350	121	3	.	.	740
2.50-2.99	39	164	126	11	.	.	340
3.00-3.49	55	85	4	.	.	144
3.50-3.99	4	56	8	.	.	68
4.00-4.49	23	6	2	.	33
4.50-4.99	4	6	4	.	14
5.00-5.49	1	5	.	.	6
5.50-5.99	1	.	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	489	3814	5172	4841	3672	1380	532	45	9	0	18772
MEAN HS(M) = 0.9	LARGEST HS(M)=		5.9	MEAN TP(SEC)=		4.7	NO. OF CASES=		18772.		

STATION H19 45.20N 83.12W AZIMUTH(DEGREES) -202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	406	959	217	58	12	1					1653
0.50-0.99		1678	648	185	121	13	1				2646
1.00-1.49		1	417	102	104	24	5				653
1.50-1.99			59	90	50	22	9				230
2.00-2.49				19	37	36	14	2			108
2.50-2.99					12	14	9	1			37
3.00-3.49					1	3	5	2			11
3.50-3.99						1	4	1			6
4.00-4.49							3				3
4.50-4.99											0
5.00-5.49								1			1
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	406	2638	1341	455	337	114	50	7	0	0	
MEAN HS(M) = 0.7	LARGEST HS(M)=		5.4	MEAN TP(SEC)=		3.7	NO. OF CASES=		5016.		

STATION H19 45.20N 83.12W AZIMUTH(DEGREES) -225.
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	389	756	165	39	10						1359
0.50-0.99		1261	470	121	31	2	1	.	.	.	1906
1.00-1.49	.	.	308	20	35	6	3	.	.	.	372
1.50-1.99	.	.	49	55	8	9	3	.	.	.	124
2.00-2.49	.	.	.	14		3	2	.	.	.	19
2.50-2.99	.	.	.		1	.	1	.	.	.	2
3.00-3.49	.	.	.			.		.	.	.	0
3.50-3.99	.	.	.			.		.	.	.	0
4.00-4.49	.	.	.			.		.	.	.	0
4.50-4.99	.	.	.			.		.	.	.	0
5.00-5.49	.	.	.			.		.	.	.	0
5.50-5.99	.	.	.			.		.	.	.	0
6.00-6.49	.	.	.			.		.	.	.	0
6.50-6.99	.	.	.			.		.	.	.	0
7.00+	.	.	.			.		.	.	.	0
TOTAL	389	2017	992	249	105	20	10	0	0	0	
MEAN HS (M) = 0.6	LARGEST HS (M) =		2.6	MEAN TP (SEC) =		3.4	NO. OF CASES =		3546.		

STATION H19 45.20N 83.12W AZIMUTH(DEGREES) =247.
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	359	680	182	84	3	.	.	.	.	.	1308
0.50-0.99	.	871	297	140	50	4	.	.	.	.	1362
1.00-1.49	.	.	162	12	20	7	.	.	.	.	201
1.50-1.99	.	.	38	25	3	6	.	.	.	.	74
2.00-2.49	.	.	1	10	1	1	2	.	.	.	14
2.50-2.99	.	.	.	1	.	.	.	.	.	.	1
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	359	1551	680	272	76	18	4	0	0	0	
MEAN HS (M) = 0.6 LARGEST HS (M) = 2.6 MEAN TP (SEC) = 3.4 NO. OF CASES = 2776.											

STATION H19 45.20N 83.12W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0~ 3.9	4.0~ 4.9	5.0~ 5.9	6.0~ 6.9	7.0~ 7.9	8.0~ 8.9	9.0~ 9.9	10.0~ 10.9	11.0~ LONGER	
0.00-0.49	469	1081	410	121	5	.	.	.	.	.	2086
0.50-0.99	.	933	392	437	166	7	.	.	.	.	1935
1.00-1.49	.	.	251	23	89	31	1	.	.	.	395
1.50-1.99	.	.	56	22	8	8	.	.	.	.	94
2.00-2.49	.	.	.	9	2	.	.	.	.	.	11
2.50-2.99	.	.	.	1	.	.	.	.	.	.	1
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	469	2014	1109	613	270	46	1	0	0	0	
MEAN HS(M) = 0.6	LARGEST HS(M)= 2.5		MEAN TP(SEC)= 3.6		NO. OF CASES= 4238.						

STATION H19 45.20N 83.12W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	418	1344	465	80							2307
0.50-0.99		1426	942	561	179	3	.	.	.	.	3111
1.00-1.49			462	164	191	35	.	.	.	.	852
1.50-1.99			134	101	57	27	6	.	.	.	325
2.00-2.49				26	48	18	5	.	.	.	97
2.50-2.99				1	10	14	1	.	.	.	26
3.00-3.49						6	4	.	.	.	10
3.50-3.99					1	.	2	.	.	.	3
4.00-4.49							3	.	.	.	0
4.50-4.99							.	.	.	.	0
5.00-5.49							.	.	.	.	0
5.50-5.99							.	.	.	.	0
6.00-6.49							.	.	.	.	0
6.50-6.99							.	.	.	.	0
7.00+							.	.	.	.	0
TOTAL	418	2770	2003	933	486	103	21	0	0	0	
MEAN HS (M) = 0.7	LARGEST HS (M) = 4.2		MEAN TP (SEC) = 3.8		NO. OF CASES = 6308.						

STATION H19 45.20N 83.12W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	219	861	451	191	8						1830
0.50-0.99		1257	2248	927	278	4					4714
1.00-1.49			583	872	584	53	1				2113
1.50-1.99			73	673	619	104	4				1473
2.00-2.49				47	553	181	5				786
2.50-2.99					118	409	6				533
3.00-3.49						233	71	1			305
3.50-3.99						5	95				100
4.00-4.49							37				37
4.50-4.99							17	4			21
5.00-5.49							1				5
5.50-5.99								2			2
6.00-6.49								1			1
6.50-6.99									1		1
7.00+											0
TOTAL	219	2218	3365	2710	2170	988	237	12	1	0	
MEAN HS (M) = 1.1	LARGEST HS (M) = 6.5		MEAN TP (SEC) = 4.7		NO. OF CASES = 11161.						

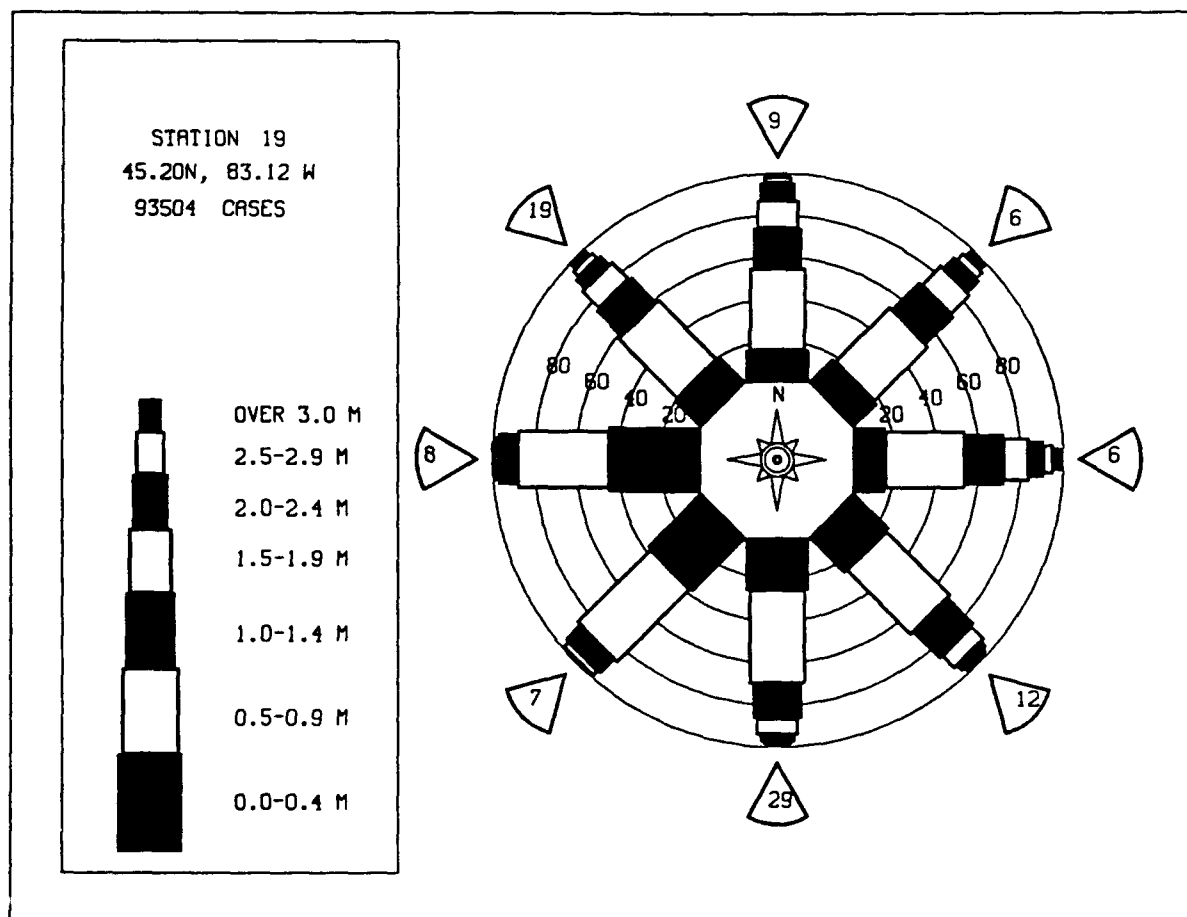
STATION H19 45.20N 83.12W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	125	533	95	6							759
0.50-0.99	.	453	1317	389	7	1	.	.	.	.	2167
1.00-1.49	.	.	233	627	148	3	.	.	.	.	1011
1.50-1.99	.	.	.	439	376	13	.	.	.	.	829
2.00-2.49	.	.	1	8	464	65	.	.	.	.	537
2.50-2.99	82	220	.	.	.	.	302
3.00-3.49	154	20	.	.	.	174
3.50-3.99	13	52	.	.	.	65
4.00-4.49	16	.	.	.	16
4.50-4.99	6	.	.	.	6
5.00-5.49	1	1	.	.	2
5.50-5.99	4	.	.	4
6.00-6.49	1	.	.	1
6.50-6.99	0
7.00+	0
TOTAL	125	986	1646	1469	1077	469	95	6	0	0	
MEAN HS(M) = 1.2	LARGEST HS(M)= 6.2		MEAN TP(SEC)= 4.7		NO. OF CASES= 5502.						

STATION H19 45.20N 83.12W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	434	1298	485	146	22	20	2	.	.	.	2385
0.50-0.99	.	1414	1728	850	227	54	8	.	.	.	4241
1.00-1.49	.	.	465	686	400	91	13	.	.	.	1613
1.50-1.99	.	.	45	379	359	61	19	.	.	.	887
2.00-2.49	.	.	.	17	297	100	23	1	.	.	433
2.50-2.99	53	149	30	.	.	.	226
3.00-3.49	80	40	1	.	.	111
3.50-3.99	6	18	.	.	.	46
4.00-4.49	5	1	.	.	19
4.50-4.99	1	2	.	.	7
5.00-5.49	1	.	.	3
5.50-5.99	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	434	2712	2723	2078	1358	500	159	8	0	0	

MEAN HS(M)= 0.9 LARGEST HS(M)= 7.5 MEAN TP(SEC)= 4.3 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H19 (45.20N 83.12W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
YEAR													
1956	1.0	0.9	1.0	0.9	0.9	0.7	0.5	0.5	0.7	1.0	1.0	0.9	0.8
1957	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1958	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1959	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
1960	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1961	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1962	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1964	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1966	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1967	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1968	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1969	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1970	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1971	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1972	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1973	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1974	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1975	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
1976	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
1977	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1978	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1979	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1980	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1981	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1982	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1983	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1984	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1985	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1986	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1987	1.2	1.0	1.1	1.1	1.0	0.9	0.8	0.8	0.8	0.8	1.0	1.0	1.1
MEAN	1.0	1.0	1.1	1.1	0.9	0.8	0.7	0.7	0.8	0.9	1.0	1.0	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H19 (45.20N 83.12W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
YEAR													
1956	2.3	4.8	7.5	3.4	3.1	3.0	2.2	1.4	2.3	3.2	2.2	2.2	
1957	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1958	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1959	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1960	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1961	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1962	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1963	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1964	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1965	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1966	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1967	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1968	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1969	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1970	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1971	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1972	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1973	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1974	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1975	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1976	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1977	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1978	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1979	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1980	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1981	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1982	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1983	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1984	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1985	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1986	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1987	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	

32 YR. STATISTICS FOR WIS STATION H19

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	0.9
MEAN PEAK WAVE PERIOD (SECONDS)	4.3
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	180.0
STANDARD DEVIATION OF WAVE HS (METERS)	0.7
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.4
LARGEST WAVE HS (METERS)	7.5
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	50.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	56030712

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0~ 3.9	4.0~ 4.9	5.0~ 5.9	6.0~ 6.9	7.0~ 7.9	8.0~ 8.9	9.0~ 9.9	10.0~ 10.9	11.0~ LONGER	
0.00-0.49	251	551	91	9	.	.	.	.	.	.	902
0.50-0.99	.	550	1187	178	8	.	.	.	.	.	1923
1.00-1.49	.	.	491	495	22	.	.	.	.	.	1008
1.50-1.99	.	.	1	604	50	4	1	.	.	.	666
2.00-2.49	.	.	.	10	254	3	.	.	.	.	267
2.50-2.99	36	3	.	.	.	.	39
3.00-3.49	3	11	.	.	.	.	14
3.50-3.99	3	.	.	.	.	3
4.00-4.49	1	.	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	251	1101	1770	1296	373	25	1	0	0	0	
MEAN HS(M) = 1.0	LARGEST HS(M)=		4.1	MEAN TP(SEC)=		4.1	NO. OF CASES=		4514.		

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	241	503	72	8							824
0.50-0.99		471	770	144	6						1391
1.00-1.49			311	348	51	3					713
1.50-1.99				290	105	5					401
2.00-2.49			1	17	118	14	1				150
2.50-2.99					34	16					50
3.00-3.49					4	11	4				19
3.50-3.99						1	1				2
4.00-4.49						2					2
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	241	974	1154	807	318	52	6	0	0	0	
MEAN HS(M) = 0.9	LARGEST HS(M) = 4.3		MEAN TP(SEC) = 4.1		NO. OF CASES = 3332.						

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	272	502	67	10							851
0.50-0.99		502	750	139	3	.	.	.	.	.	1394
1.00-1.49			331	421	47	.	.	.	.	.	800
1.50-1.99				280	229	3	.	.	.	.	512
2.00-2.49				22	240	19	1	.	.	.	282
2.50-2.99					43	75	.	.	.	.	118
3.00-3.49					5	35	4	.	.	.	44
3.50-3.99					.	4	13	1	.	.	18
4.00-4.49					.	2	5	.	.	.	7
4.50-4.99					.	1	4	.	.	.	5
5.00-5.49						.	.	1	.	.	1
5.50-5.99						.	.	.	1	.	0
6.00-6.49					.	.	.	.	1	.	1
6.50-6.99					.	.	.	.	1	.	1
7.00+					.	.	.	.	.	.	0
TOTAL	272	1004	1148	872	567	140	27	2	2	0	
MEAN HS(M) = 1.0	LARGEST HS(M)=		6.5	MEAN TP(SEC)=		4.3	NO. OF CASES=		3784.		

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	152	347	54	1	1	.	.	.	.	.	555
0.50-0.99	.	340	624	139	5	.	.	.	.	.	1108
1.00-1.49	.	.	180	321	63	2	.	.	.	.	566
1.50-1.99	.	.	1	182	170	11	.	.	.	.	364
2.00-2.49	.	.	.	6	150	23	.	.	.	.	182
2.50-2.99	26	68	3	.	.	.	98
3.00-3.49	1	51	4	.	.	.	62
3.50-3.99	5	22	.	.	.	27
4.00-4.49	10	.	.	.	10
4.50-4.99	4	.	.	.	5
5.00-5.49	1	.	.	1
5.50-5.99	3	.	.	3
6.00-6.49	0
6.50-6.99	1	.	1
7.00+	0
TOTAL	152	687	859	649	416	160	53	5	1	0	
MEAN HS(M) = 1.1	LARGEST HS(M) = 6.5		MEAN TP(SEC) = 4.4		NO. OF CASES = 2801.						

STATION H20 45.35N 83.32W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PERCENT OCCURRENCE (X1000) OF HEIGHT AND PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	208	402	45	1							656
0.50-0.99		453	681	176	6						1316
1.00-1.49			193	350	104	2					649
1.50-1.99			1	193	208	24					426
2.00-2.49				3	179	52					245
2.50-2.99					36	140	11				199
3.00-3.49						65	19				87
3.50-3.99						6	47				53
4.00-4.49							26				13
4.50-4.99							4				4
5.00-5.49								1			1
5.50-5.99								3			3
6.00-6.49								1			1
6.50-6.99									2		2
7.00+										0	0
TOTAL	208	855	920	723	533	289	130	18	2	0	3452.
MEAN HS(M) = 1.2	LARGEST HS(M)=		6.5	MEAN TP(SEC)=		4.6	NO. OF CASES=		3452.		

STATION H20 45.35N 83.32W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	278	576	72	7							933
0.50-0.99		571	1071	228	14						1884
1.00-1.49			254	421	145	3					823
1.50-1.99			2	223	209	37	1				472
2.00-2.49				2	148	74	17				241
2.50-2.99					18	88	40				146
3.00-3.49						31	33		2		66
3.50-3.99						1	34		1		36
4.00-4.49							18		3		21
4.50-4.99							4		6		11
5.00-5.49									1		6
5.50-5.99									1		3
6.00-6.49									2		0
6.50-6.99										1	1
7.00+										1	1
TOTAL	278	1147	1399	881	534	234	147	19	4	1	4355
MEAN HS(M) = 1.0	LARGEST HS(M) =		7.1	MEAN TP(SEC) =		4.4	NO. OF CASES =				

STATION H20 45.35N 83.32W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	557	1182	537	398	78	4	2	.	.	.	2758
0.50-0.99	.	906	1562	668	327	75	14	.	.	.	3552
1.00-1.49	.	.	319	481	313	99	21	.	.	.	1235
1.50-1.99	.	.	4	253	217	53	16	2	.	.	545
2.00-2.49	.	.	.	4	129	62	27	2	.	.	224
2.50-2.99	9	58	33	1	1	.	102
3.00-3.49	20	21	.	.	.	41
3.50-3.99	2	26	2	.	.	30
4.00-4.49	6	7	.	.	13
4.50-4.99	3	1	.	4
5.00-5.49	2	1	.	3
5.50-5.99	1	.	0
6.00-6.49	1	.	0
6.50-6.99	0
7.00+	0
TOTAL	557	2088	2422	1804	1073	373	166	20	5	0	7972.
MEAN HS(M) = 0.8	LARGEST HS(M)=		6.1		MEAN TP(SEC)=		4.3		NO. OF CASES=		7972.

STATION H20 45.35N 83.32W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1284	2008	878	997	751	206	27	.	.	.	6149
0.50-0.99	.	2546	750	519	703	491	183	6	.	.	5198
1.00-1.49	.	.	217	152	237	159	132	10	1	.	908
1.50-1.99	.	.	28	60	48	52	55	4	2	.	249
2.00-2.49	.	.	.	5	19	18	16	3	1	.	60
2.50-2.99	.	.	.	1	3	11	7	3	1	.	26
3.00-3.49	3	1	.	.	4
3.50-3.99	5	1	.	.	6
4.00-4.49	1	2	.	.	3
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1284	4552	1873	1734	1761	937	429	28	5	0	11802.
MEAN HS (M) = 0.5	LARGEST HS (M) =		4.3		MEAN TP (SEC) =		4.2		NO. OF CASES =		11802.

STATION H20 45.35N 83.32W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1300	1463	148	39	42	21	3				3016
0.50-0.99		2266	483	137	66	41	32	2			3027
1.00-1.49			329	22	41	26	27	4			449
1.50-1.99			53	22	2	13	16		1		109
2.00-2.49				4		1	4	2	2		13
2.50-2.99											0
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	1300	3729	1013	224	151	102	82	10	3	0	6196
MEAN HS(M) = 0.5 LARGEST HS(M)= 2.4 MEAN TP(SEC)= 3.2 NO. OF CASES= 6196.											

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.4 MEAN TP(SEC)= 3.2 NO. OF CASES= 6196.

STATION H20 45.35N 83.32W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.43	813	834	131	16	9	7	1	.	.	.	1811
0.50-0.99	.	1630	526	99	21	8	4	.	.	.	2288
1.00-1.49	.	.	406	10	21	4	8	.	1	.	450
1.50-1.99	.	.	35	101	2	3	4	2	.	.	146
2.00-2.49	.	.	.	22	1	.	1	.	.	.	25
2.50-2.99	.	.	.	1	.	.	.	.	.	.	1
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	813	2464	1098	249	54	22	18	2	1	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.6 MEAN TP(SEC)= 3.2 NO. OF CASES= 4424.

STATION H20 45.35N 83.32W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	838	881	168	28	4	2	.	.	.	.	1921
0.50-0.99	.	1661	604	73	25	9	3	.	.	.	2375
1.00-1.49	.	1	444	5	18	9	4	.	1	.	482
1.50-1.99	.	.	22	96	3	1	1	.	.	.	123
2.00-2.49	.	.	.	24	1	.	.	.	.	.	25
2.50-2.99	6	.	.	.	.	.	6
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	838	2543	1238	226	57	21	8	0	1	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.6 MEAN TP(SEC)= 3.2 NO. OF CASES= 4622.

STATION H20 45.35N 83.32W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	717	933	185	20	3	1					1859
0.50-0.99	.	1398	398	84	22	2	3	.	.	.	1907
1.00-1.49	.	.	296	9	7	2	3	.	.	.	317
1.50-1.99	.	.	37	53	1	.	.	.	.	.	91
2.00-2.49	.	.	.	16	1	.	.	.	.	.	17
2.50-2.99	0
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	717	2331	916	182	34	5	6	0	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.4 MEAN TP(SEC)= 3.2 NO. OF CASES= 3926.

STATION H20 45.35N 83.32W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.5 MEAN TP(SEC)= 3.2 NO. OF CASES= 4902.

STATION H20 45.35N 83.32W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 0.7 LARGEST HS(M)= 4.0 MEAN TP(SEC)= 3.6 NO. OF CASES= 7963.

STATION H20 45.35N 83.32W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 1.1 LARGEST HS(M)= 5.8 MEAN TP(SEC)= 4.6 NO. OF CASES= 13718.

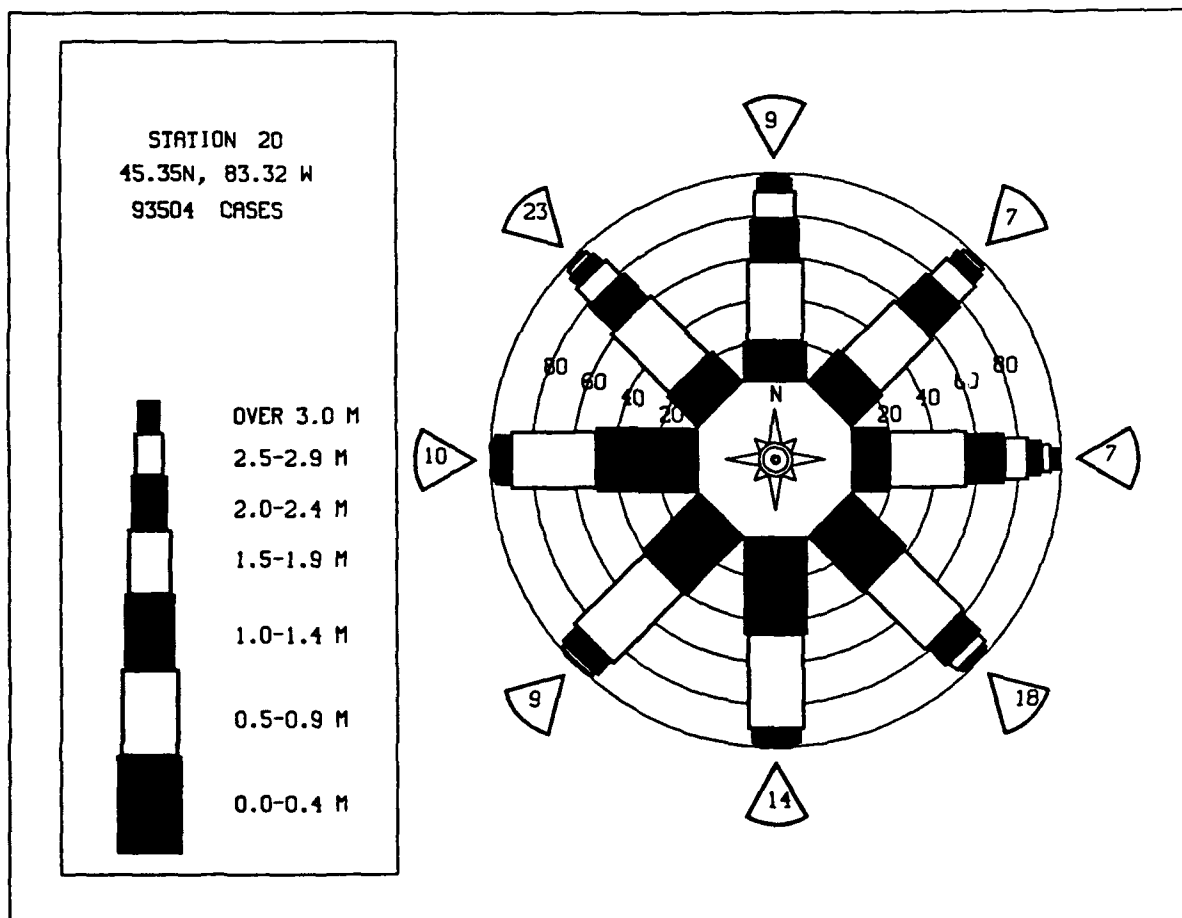
STATION H20 45.35N 83.32W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 1.1 LARGEST HS(M)= 5.5 MEAN TP(SEC)= 4.5 NO. OF CASES= 5741

STATION H20 45.35N 83.32W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	910	1527	445	182	89	24	3	.	.	.	3180
0.50-0.99	.	1873	1500	519	152	63	24	.	.	.	4131
1.00-1.49	.	.	570	516	194	36	20	1	.	.	1337
1.50-1.99	.	.	53	394	232	31	9	1	.	.	720
2.00-2.49	.	.	.	25	262	36	8	.	.	.	331
2.50-2.99	49	102	11	.	.	.	162
3.00-3.49	1	56	12	.	.	.	69
3.50-3.99	4	21	.	.	.	25
4.00-4.49	11	.	.	.	12
4.50-4.99	2	1	.	.	4
5.00-5.49	1	.	.	1
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	910	3400	2568	1636	979	352	121	6	0	0	93504

MEAN HS(M)= 0.8 LARGEST HS(M)= 7.1 MEAN TP(SEC)= 4.0 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR												
WIS STATION H20 (45.35N 83.32W)												
MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1957	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1958	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1959	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1960	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1961	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1962	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1963	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1964	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1965	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1966	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1967	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1968	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1969	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1970	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1971	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1972	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1973	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1974	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1975	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1976	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1977	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1978	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1979	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1980	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1981	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1982	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1983	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1984	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1985	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1986	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
1987	0.9	0.9	1.0	0.9	0.8	0.6	0.5	0.5	0.6	0.9	0.9	0.8
MEAN	0.9	0.9	1.0	1.0	0.8	0.7	0.6	0.6	0.7	0.8	0.9	0.9

LARGEST HS(METERS) BY MONTH AND YEAR												
WIS STATION H20 (45.35N 83.32W)												
MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1957	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1958	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1959	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1960	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1961	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1962	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1963	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1964	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1965	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1966	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1967	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1968	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1969	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1970	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1971	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1972	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1973	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1974	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1975	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1976	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1977	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1978	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1979	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1980	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1981	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1982	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1983	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1984	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1985	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1986	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4
1987	2.6	2.6	3.5	4.0	3.2	2.7	2.6	1.5	2.3	3.3	3.1	2.4

32 YR. STATISTICS FOR WIS STATION H20

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.8
MEAN PEAK WAVE PERIOD	(SECONDS)	4.0
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	315.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.6
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.4
LARGEST WAVE HS	(METERS)	7.1
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	10.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	103.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		65031803

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	317	703	72	18	1						1111
0.50-0.99		562	1084	137	14	1					1798
1.00-1.49			432	390	24						848
1.50-1.99			1	526	28	6					561
2.00-2.49				12	178	2					192
2.50-2.99					24						24
3.00-3.49					1						6
3.50-3.99						5					3
4.00-4.49											0
4.50-4.99											0
5.00-5.49							1				1
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	317	1265	1589	1083	270	19	1	0	0	0	4259
MEAN HS(M) = 0.9	LARGEST HS(M)=		5.2	MEAN TP(SEC)=		4.0	NO. OF CASES=				

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	278	541	64	10	1	.	.	.	.	.	894
0.50-0.99	.	440	684	125	8	.	.	.	.	.	1257
1.00-1.49	.	.	314	262	36	1	.	.	.	.	613
1.50-1.99	.	.	2	276	23	4	.	.	.	.	305
2.00-2.49	.	.	.	13	67	7	.	.	.	.	87
2.50-2.99	28	.	1	.	.	.	29
3.00-3.49	2	5	.	.	.	.	7
3.50-3.99	1	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	278	981	1064	686	165	19	1	0	0	0	2995.
MEAN HS (M) = 0.8	LARGEST HS (M) =		4.0	MEAN TP (SEC) =		3.8	NO. OF CASES =		2995.		

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	336	543	70	8	1	.	.	.	.	.	958
0.50-0.99	.	444	703	139	5	.	.	.	.	.	1291
1.00-1.49	.	.	391	330	35	1	.	.	.	.	757
1.50-1.99	.	.	.	398	51	6	1	.	.	.	456
2.00-2.49	.	.	.	16	148	9	.	.	.	.	173
2.50-2.99	68	6	2	.	.	.	176
3.00-3.49	3	11	2	.	.	.	16
3.50-3.99	6	3	.	.	.	33
4.00-4.49	1	1	1	.	.	3
4.50-4.99	1	.	.	1
5.00-5.49	2	.	.	.	2
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	336	987	1164	891	311	40	12	2	0	0	3511.
MEAN HS(M) = 0.9	LARGEST HS(M)=			5.3	MEAN TP(SEC)=			4.0	NO. OF CASES=		3511.

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	217	453	44	7							721
0.50-0.99		343	599	134	10						1087
1.00-1.49			208	308	70						588
1.50-1.99			1		106						374
2.00-2.49				255	141	12					167
2.50-2.99					31	17					68
3.00-3.49					1	33					39
3.50-3.99						33					16
4.00-4.49							1				1
4.50-4.99								1			1
5.00-5.49								1			1
5.50-5.99									1		1
6.00-6.49										1	1
6.50-6.99											0
7.00+											0
TOTAL	217	796	852	711	359	102	35	3	1	0	
MEAN HS (M) = 1.0	LARGEST HS (M) =		6.6		MEAN TP (SEC) =		4.2		NO. OF CASES =		2888.

STATION H21 45.50N 83.52W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	281	445	66	10	.	.	.	.	.	.	802
0.50-0.99	.	392	682	165	9	.	.	.	.	.	1248
1.00-1.49	.	.	170	351	105	.	.	.	.	.	627
1.50-1.99	.	.	.	222	207	40	13	.	.	.	470
2.00-2.49	.	.	.	2	168	66	22	1	.	.	249
2.50-2.99	43	121	28	3	.	.	187
3.00-3.49	68	50	.	.	.	99
3.50-3.99	5	27	3	.	.	55
4.00-4.49	5	7	.	.	30
4.50-4.99	6	1	.	12
5.00-5.49	2	1	.	7
5.50-5.99	1	3	.	3
6.00-6.49	1	.	3
6.50-6.99	2
7.00+	0
TOTAL	281	837	918	750	532	301	146	23	6	0	

MEAN HS(M) = 1.2 LARGEST HS(M)= 6.8 MEAN TP(SEC)= 4.5 NO. OF CASES= 3564.

STATION H21 45.50N 83.52W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	349	657	100	9	.	.	.	.	.	.	1115
0.50-0.99	.	515	962	231	20	.	.	.	.	.	1728
1.00-1.49	.	.	207	376	173	8	.	.	.	.	764
1.50-1.99	.	.	1	189	209	56	2	.	.	.	457
2.00-2.49	.	.	.	5	141	75	21	.	.	.	242
2.50-2.99	18	103	47	1	.	.	169
3.00-3.49	32	33	3	1	.	69
3.50-3.99	41	4	.	.	45
4.00-4.49	17	3	.	.	22
4.50-4.99	9	1	.	13
5.00-5.49	4	1	.	5
5.50-5.99	2	1	.	3
6.00-6.49	1	.	1
6.50-6.99	1	1
7.00+	1
TOTAL	349	1172	1270	810	561	274	164	28	6	1	

MEAN HS(M) = 1.0 LARGEST HS(M)= 7.0 MEAN TP(SEC)= 4.4 NO. OF CASES= 4347.

STATION H21 45.50N 83.52W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	731	1326	605	437	112	7	2	.	.	.	3220
0.50-0.99	.	1055	1648	612	371	126	27	.	.	.	3839
1.00-1.49	.	.	339	441	288	129	35	5	.	.	1237
1.50-1.99	.	.	3	231	229	50	23	1	.	.	537
2.00-2.49	.	.	.	2	118	66	36	2	1	.	225
2.50-2.99	8	54	38	2	.	1	103
3.00-3.49	9	16	3	.	.	28
3.50-3.99	34	2	.	.	36
4.00-4.49	3	9	1	.	13
4.50-4.99	3	2	.	5
5.00-5.49	1	2	.	3
5.50-5.99	0
6.00-6.49	1	.	0
6.50-6.99	0
7.00+	0
TOTAL	731	2381	2595	1723	1126	441	214	28	7	1	

MEAN HS(M) = 0.8 LARGEST HS(M)= 6.3 MEAN TP(SEC)= 4.3 NO. OF CASES= 8661.

STATION H21 45.50N 83.52W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1448	2063	635	726	587	186	22	.	.	.	5667
0.50-0.99	.	2383	625	293	374	294	150	.	.	.	4126
1.00-1.49	.	.	235	94	143	97	88	8	.	.	665
1.50-1.99	.	.	41	26	35	34	47	3	2	.	182
2.00-2.49	.	.	.	2	21	11	6	4	1	.	46
2.50-2.99	.	.	.	1	2	5	3	1	1	.	16
3.00-3.49	1	1	.	.	.	4
3.50-3.99	1	.	.	.	2
4.00-4.49	1	.	.	1
4.50-4.99	1	.	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1448	4446	1536	1142	1162	628	319	24	5	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 4.5 MEAN TP(SEC)= 4.0 NO. OF CASES= 10027.

STATION H21 45.50N 83.52W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	1372	1474	119	33	26	18	3	.	.	.	3045
0.50-0.99	.	1884	413	148	70	27	28	2	.	.	2372
1.00-1.49	.	.	248	13	40	24	10	6	.	.	341
1.50-1.99	.	.	34	20	3	9	7	.	1	.	74
2.00-2.49	.	.	.	3	.	1	3	3	1	.	11
2.50-2.99	0
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1372	3358	814	217	139	79	51	11	2	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.4 MEAN TP(SEC)= 3.2 NO. OF CASES= 5663.

STATION H21 45.50N 83.52W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	895	937	81	21	3	1	.	.	.	.	1938
0.50-0.99	.	1444	552	103	44	6	.	.	.	.	2150
1.00-1.49	.	.	317	3	22	17	5	.	.	.	364
1.50-1.99	.	.	29	66	2	2	3	1	.	.	103
2.00-2.49	.	.	.	12	4	2	1	.	.	.	19
2.50-2.99	.	.	.	1	.	.	.	.	.	.	1
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	895	2381	979	206	75	28	10	1	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.6 MEAN TP(SEC)= 3.2 NO. OF CASES= 4288.

STATION H21 45.50N 83.52W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	996	927	97	26	1	1	1	.	.	.	2049
0.50-0.99	.	1615	680	66	22	3	3	.	.	.	2389
1.00-1.49	.	.	414	4	21	7	1	.	.	.	447
1.50-1.99	.	.	11	101	2	1	1	1	.	.	116
2.00-2.49	.	.	.	17	6	.	.	.	.	.	23
2.50-2.99	1	.	.	.	1	.	2
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	996	2542	1202	214	53	11	6	1	1	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.7 MEAN TP(SEC)= 3.2 NO. OF CASES= 4708.

STATION H21 45.50N 83.52W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	883	915	75	8	2	.	.	.	.	.	1883
0.50-0.99	.	1546	685	41	21	1	.	1	.	.	2295
1.00-1.49	.	.	571	60	6	3	.	.	.	.	640
1.50-1.99	.	.	7	192	1	1	.	.	.	.	200
2.00-2.49	.	.	.	27	10	.	.	.	.	.	37
2.50-2.99	3	.	.	.	.	.	3
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	883	2461	1338	328	42	5	0	1	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.7 MEAN TP(SEC)= 3.3 NO. OF CASES= 4738.

HEIGHT(METRES)	PERCENT OCCURRENCE (HOURS)										TOTAL
	PEAK PERIOD(SECONDS)										
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49			118	17							2476
0.50-0.99	917	1423	659	60	18	1	2				2203
1.00-1.49		1463	730	132	14	2					878
1.50-1.99			3	355	1						359
2.00-2.49				26	20						46
2.50-2.99					14						14
3.00-3.49					2						2
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	917	2886	1511	590	69	3	2	0	0	0	5598.

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.1 MEAN TP(SEC)= 3.3 NO. OF CASES= 5598.

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	567	2208	285	5	1	.	.	.	.	.	3066
0.50-0.99	.	1875	2097	471	7	.	.	.	.	.	4450
1.00-1.49	.	.	1166	652	82	.	.	.	.	.	1900
1.50-1.99	.	.	18	950	242	1	.	.	.	.	1211
2.00-2.49	.	.	.	144	391	18	.	.	.	.	553
2.50-2.99	143	68	.	.	.	.	211
3.00-3.49	5	57	.	.	.	.	64
3.50-3.99	1	14	.	.	.	.	18
4.00-4.49	2	.	.	.	6
4.50-4.99	3	.	.	.	2
5.00-5.49	2	.	.	.	1
5.50-5.99	1	.	.	.	0
6.00-6.49	0
6.50-6.99	0
7.00-7.99	0
TOTAL	567	4083	3566	2222	872	158	14	0	0	0	
MEAN HS(M) = 0.9	LARGEST HS(M)=		5.2	MEAN TP(SEC)=		3.9	NO. OF CASES=		10748.		

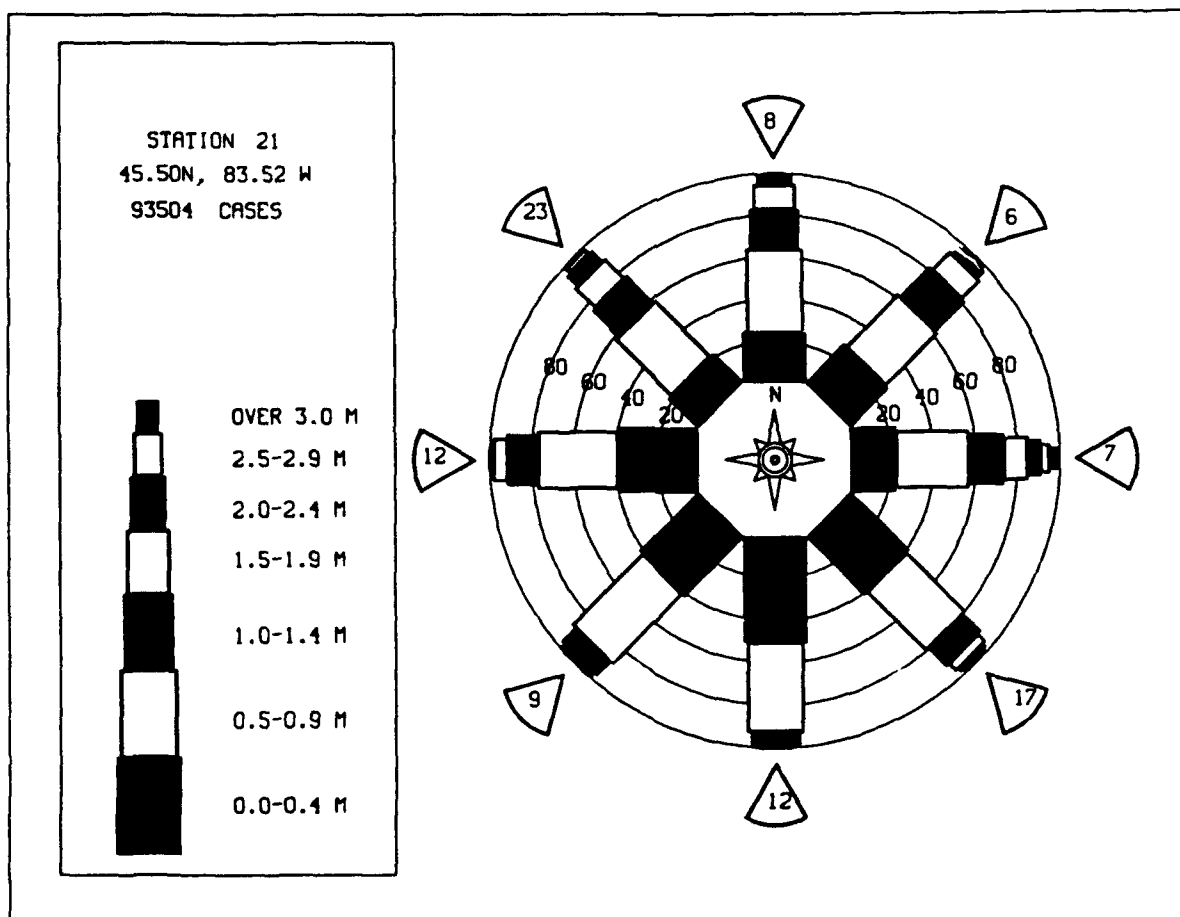
HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	370	1671	412	12							2465
0.50-0.99		849	3075	872	9	1					4906
1.00-1.49			611	1610	119						2340
1.50-1.99			12	1128	580	2					1722
2.00-2.49				17	931	8					956
2.50-2.99					301	148					449
3.00-3.49						114					114
3.50-3.99						31	8				39
4.00-4.49						1	6				7
4.50-4.99							1				1
5.00-5.49							1				1
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	370	2520	4110	3739	1940	305	16	0	0	0	
MEAN HS(M) = 1.1	LARGEST HS(M)=		5.1	MEAN TP(SEC)=		4.4	NO. OF CASES=		12167.		

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	275	743	66	11							1095
0.50-0.99		574	1371	203	8	1					2157
1.00-1.49			355	664	21						1040
1.50-1.99				689	131	3	1				824
2.00-2.49				4	435						439
2.50-2.99					91	23					114
3.00-3.49						24					24
3.50-3.99						7					7
4.00-4.49						1	2				3
4.50-4.99							1				1
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	275	1317	1792	1571	686	59	4	0	0	0	5342
MEAN HS (M) = 1.0	LARGEST HS (M) =		4.6	MEAN TP (SEC) =		4.2	NO. OF CASES =		5342		

STATION H21 45.50N 83.52W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0 3.9	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1023	1703	291	136	73	21	2				3249
0.50-0.99		1739	1652	390	101	46	21	1			3950
1.00-1.49			671	569	120	29	14	2			1405
1.50-1.99			16	563	185	23	8				795
2.00-2.49				31	278	28	8				345
2.50-2.99					78	56	12				146
3.00-3.49					1	36	9				46
3.50-3.99						7	15				22
4.00-4.49							7	1			8
4.50-4.99							1	2			3
5.00-5.49								1			1
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	1023	3442	2630	1689	836	246	97	7	0	0	

MEAN HS(M)= 0.8 LARGEST HS(M)= 7.0 MEAN TP(SEC)= 3.9 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H21 (45.50N 83.52W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	0.8	0.9	1.0	1.0	0.8	0.7	0.6	0.5	0.6	0.9	1.0	0.9	0.8
1957	0.8	0.8	0.8	0.8	0.8	0.7	0.6	0.6	0.7	0.8	1.1	1.1	0.8
1958	0.8	1.1	0.8	0.8	1.0	1.0	0.6	0.6	0.9	1.0	1.2	0.8	0.9
1959	0.8	1.1	1.0	1.0	1.1	1.0	0.7	0.7	0.7	1.0	0.9	1.1	0.8
1960	0.8	1.0	0.8	0.8	0.9	0.7	0.6	0.5	0.5	0.7	0.9	0.8	0.8
1961	0.7	0.8	1.3	1.0	0.9	0.7	0.5	0.6	0.6	0.7	0.8	0.7	0.7
1962	0.8	0.8	0.7	0.8	0.8	0.6	0.7	0.5	0.7	0.6	0.8	0.8	0.7
1963	0.8	0.7	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.5	0.8	0.8	0.8
1964	0.8	0.7	1.1	1.2	0.9	0.6	0.6	0.6	0.7	0.7	0.9	0.7	0.8
1965	0.8	1.1	0.8	0.8	0.8	0.8	0.6	0.6	0.7	0.9	0.8	0.8	0.8
1966	0.8	0.7	1.1	1.0	0.9	0.5	0.5	0.6	0.7	0.8	0.8	0.7	0.8
1967	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.6	0.6	0.8	0.8	0.8	0.8
1968	0.8	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.7	1.1	1.1	0.8
1969	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.6	0.6	0.6	0.8	0.8	0.8
1970	0.8	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.7	0.9	1.0	0.8
1971	0.8	1.0	1.0	0.8	0.8	0.6	0.6	0.6	0.6	0.7	0.8	0.8	0.8
1972	0.8	0.7	0.8	0.8	0.8	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.8
1973	0.8	0.7	0.8	0.8	0.8	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.8
1974	0.8	0.8	1.1	1.1	0.8	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8
1975	0.8	0.8	1.1	1.1	0.8	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8
1976	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1977	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1978	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1979	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1980	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1981	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1982	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1983	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1984	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1985	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1986	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1987	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
MEAN	0.9	0.9	1.0	1.0	0.8	0.7	0.6	0.6	0.7	0.8	0.9	0.9	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H21 (45.50N 83.52W)

YEAR	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1957	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1958	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1959	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1960	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1961	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1962	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1963	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1964	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1965	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1966	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1967	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1968	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1969	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1970	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1971	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1972	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1973	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1974	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1975	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1976	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1977	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1978	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1979	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1980	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1981	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1982	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1983	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1984	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1985	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1986	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1987	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2

32 YR. STATISTICS FOR WIS STATION H21

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.8
MEAN PEAK WAVE PERIOD	(SECONDS)	3.9
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	315.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.6
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.3
LARGEST WAVE HS	(METERS)	7.0
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	10.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	103.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		65031803

STATION H22 45.50N 83.72W AZIMUTH(DEGREES) = 0.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	396	747	98	25	2		1				1270
0.50-0.99		548	1088	134	13	3					1786
1.00-1.49			449	441	20	3	1				914
1.50-1.99			1	549	26	2	1				579
2.00-2.49				14	186	1					201
2.50-2.99					19						19
3.00-3.49					1	5					6
3.50-3.99						4					4
4.00-4.49						1					1
4.50-4.99							1				1
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	396	1295	1636	1164	267	19	4	0	0	0	4481.

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.9 MEAN TP(SEC)= 3.9 NO. OF CASES= 4481.

STATION H22 45.50N 83.72W AZIMUTH(DEGREES) = 22.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	378	605	84	25	1						1093
0.50-0.99		468	675	136	12		1				1292
1.00-1.49			284	302	42	1					629
1.50-1.99			6	305	35	12					358
2.00-2.49				11	104	1	1				117
2.50-2.99					29		1				30
3.00-3.49					3	5					8
3.50-3.99						1					1
4.00-4.49						1					0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	378	1073	1049	779	226	21	3	0	0	0	3312.

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.1 MEAN TP(SEC)= 3.9 NO. OF CASES= 3312.

STATION H22 45.50N 83.72W AZIMUTH(DEGREES) = 45.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	410	581	78	18	1						1088
0.50-0.99		406	679	147	7	1					1240
1.00-1.49			396	318	38	3					755
1.50-1.99				403	36	8	1				448
2.00-2.49				11	167	10					188
2.50-2.99					62	6	5				73
3.00-3.49					2	13	2				17
3.50-3.99						5	2	1			8
4.00-4.49						1		1			2
4.50-4.99							2				2
5.00-5.49								1			0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	410	987	1153	897	313	47	12	3	0	0	3585.

MEAN HS(M) = 0.9 LARGEST HS(M)= 5.0 MEAN TP(SEC)= 4.0 NO. OF CASES= 3585.

STATION H22 45.50N 83.72W AZIMUTH(DEGREES) = 67.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	278	452	70	9	1						810
0.50-0.99		318	578	121	11						1028
1.00-1.49			196	285	71	3					555
1.50-1.99				244	102	14					360
2.00-2.49				10	120	14					144
2.50-2.99					29	28	6				63
3.00-3.49					1	27	11	1			40
3.50-3.99						3	9				12
4.00-4.49							8				8
4.50-4.99							1	2			3
5.00-5.49								5			5
5.50-5.99								1	1		2
6.00-6.49									1		1
6.50-6.99									1		1
7.00+											0
TOTAL	278	770	844	669	335	89	35	9	3	0	2852.

MEAN HS(M) = 1.0 LARGEST HS(M)= 6.9 MEAN TP(SEC)= 4.2 NO. OF CASES= 2852.

STATION H22 45.50N 83.72W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49			67	26	2	1					943
0.50-0.99	352	495	687	196	7						1316
1.00-1.49		426	177	326	125	1					629
1.50-1.99				233	199	54	1				487
2.00-2.49				1	163	59	16				239
2.50-2.99					39	118	28				188
3.00-3.49						60	43	1			104
3.50-3.99						2	55	1			38
4.00-4.49							29	3			16
4.50-4.99							7	8	1		5
5.00-5.49							1	4			6
5.50-5.99								3	3		1
6.00-6.49									1		3
6.50-6.99								1	2		1
7.00+									1	1	2
TOTAL	352	921	931	782	535	295	180	24	8	1	3784

MEAN HS(M) = 1.2 LARGEST HS(M)= 7.4 MEAN TP(SEC)= 4.5 NO. OF CASES= 3784.

STATION H22 45.50N 83.72W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	475	672	110	22	2	.	.	.	.	.	1281
0.50-0.99	.	749	889	229	35	.	.	.	.	.	1902
1.00-1.49	.	.	198	396	191	19	.	.	.	.	804
1.50-1.99	.	.	1	127	159	64	6	.	.	.	357
2.00-2.49	.	.	.	4	84	78	27	.	.	.	193
2.50-2.99	5	51	31	2	.	.	89
3.00-3.49	18	25	1	1	.	45
3.50-3.99	18	4	.	.	22
4.00-4.49	12	6	.	.	18
4.50-4.99	2	2	.	.	4
5.00-5.49	1	.	.	1
5.50-5.99	1	.	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	475	1421	1198	778	476	230	121	22	3	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 6.3 MEAN TP(SEC)= 4.1 NO. OF CASES= 4431.

STATION H22 45.50N 83.72W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1060	1369	422	373	242	68	14				3548
0.50-0.99		2163	981	422	232	93	42	3			3936
1.00-1.49			276	409	290	75	27	6			1083
1.50-1.99			25	52	148	101	24	3			353
2.00-2.49				2	25	51	49	1	1		129
2.50-2.99						11	45	5			61
3.00-3.49							10	9			19
3.50-3.99							1	4			5
4.00-4.49								1	1		2
4.50-4.99											0
5.00-5.49										1	1
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	1060	3532	1704	1258	937	399	212	32	5	1	

MEAN HS(M) = 0.7 LARGEST HS(M)= 5.1 MEAN TP(SEC)= 4.0 NO. OF CASES= 8566.

STATION H22 45.50N 83.72W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1835	1884	300	298	264	129	24	2	.	.	4732
0.50-0.99	.	2333	383	219	108	54	39	6	.	.	3143
1.00-1.49	.	.	181	90	124	44	21	1	.	.	461
1.50-1.99	.	.	20	7	20	14	27	2	1	.	99
2.00-2.49	.	.	.	2	3	9	13	2	.	.	28
2.50-2.99	6	4	1	.	11
3.00-3.49	1	.	0
3.50-3.99	1	.	1
4.00-4.49	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1835	4217	884	616	520	250	130	17	4	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 4.3 MEAN TP(SEC)= 3.4 NO. OF CASES= 7937.

STATION H22 45.50N 83.72W AZIMUTH(DEGREES) =180.0										
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	1654	1588	204	71	11	8	2	.	.	.
0.50-0.99	.	2031	382	175	111	27	4	1	.	.
1.00-1.49	.	.	234	8	36	38	13	1	.	.
1.50-1.99	.	.	18	16	5	9	10	.	.	.
2.00-2.49	.	.	.	1	.	1	1	2	1	.
2.50-2.99
3.00-3.49
3.50-3.99
4.00-4.49
4.50-4.99
5.00-5.49
5.50-5.99
6.00-6.49
6.50-6.99
7.00+
TOTAL	1654	3619	838	272	163	83	30	4	1	0

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.6 MEAN TP(SEC)= 3.1 NO. OF CASES= 6242.

STATION H22 45.50N 83.72W AZIMUTH(DEGREES) =202.5										
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	1224	1006	121	55	9	1	.	.	.	.
0.50-0.99	.	1781	557	110	63	18	4	.	1	.
1.00-1.49	.	.	319	3	17	13	5	.	.	.
1.50-1.99	.	.	24	68	3	3	.	.	.	.
2.00-2.49	.	.	.	9	1	.	.	1	.	.
2.50-2.99
3.00-3.49
3.50-3.99
4.00-4.49
4.50-4.99
5.00-5.49
5.50-5.99
6.00-6.49
6.50-6.99
7.00+
TOTAL	1224	2787	1021	245	90	35	9	1	1	0

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.4 MEAN TP(SEC)= 3.1 NO. OF CASES= 5070.

STATION H22 45.50N 83.72W AZIMUTH(DEGREES) =225.0										
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	1333	1015	157	57	11	2	.	.	.	.
0.50-0.99	.	1808	691	65	38	8	4	.	.	.
1.00-1.49	.	.	406	2	16	11	1	.	.	.
1.50-1.99	.	.	8	104	5	1	.	.	.	.
2.00-2.49	.	.	.	14	2	.	1	.	1	.
2.50-2.99
3.00-3.49
3.50-3.99
4.00-4.49
4.50-4.99
5.00-5.49
5.50-5.99
6.00-6.49
6.50-6.99
7.00+
TOTAL	1333	2823	1262	242	72	21	7	0	1	0

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.6 MEAN TP(SEC)= 3.1 NO. OF CASES= 5397.

STATION H22 45.50N 83.72W AZIMUTH(DEGREES) =247.5										
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	1175	1102	155	40	9	3	.	.	.	.
0.50-0.99	.	1482	407	40	23	4	.	.	.	.
1.00-1.49	.	.	309	1	8	3	1	.	.	.
1.50-1.99	.	.	23	68	.	1	.	.	.	.
2.00-2.49	.	.	.	11	.	.	.	.	.	.
2.50-2.99
3.00-3.49
3.50-3.99
4.00-4.49
4.50-4.99
5.00-5.49
5.50-5.99
6.00-6.49
6.50-6.99
7.00+
TOTAL	1175	2584	894	160	40	11	2	0	0	0

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.2 MEAN TP(SEC)= 3.0 NO. OF CASES= 4557.

STATION H22 45.50N 83.72W AZIMUTH(DEGREES) =270.0											
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	1253	1608	224	44	10	1	.	.	.	.	3140
0.50-0.99	.	1466	330	80	23	3	.	.	.	.	1902
1.00-1.49	.	.	287	2	10	3	.	.	.	.	302
1.50-1.99	.	.	42	24	.	.	.	.	.	.	66
2.00-2.49	.	.	.	7	.	.	.	.	.	.	7
2.50-2.99	0
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1253	3074	883	157	43	7	0	0	0	0	5073.

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.3 MEAN TP(SEC)= 3.0 NO. OF CASES= 5073.

STATION H22 45.50N 83.72W AZIMUTH(DEGREES) =292.5											
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	1045	2395	496	21	4	1	.	.	.	.	3962
0.50-0.99	.	2221	946	300	19	3	.	.	.	.	3489
1.00-1.49	.	.	541	183	38	.	.	.	.	.	762
1.50-1.99	.	.	168	154	59	.	.	.	.	.	381
2.00-2.49	.	.	.	23	83	4	.	.	.	.	110
2.50-2.99	.	.	.	1	19	9	.	.	.	.	29
3.00-3.49	7	.	.	.	.	7
3.50-3.99	2	.	.	.	2
4.00-4.49	1	.	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1045	4616	2151	682	222	26	2	0	0	0	8186.

MEAN HS(M) = 0.6 LARGEST HS(M)= 4.5 MEAN TP(SEC)= 3.4 NO. OF CASES= 8186.

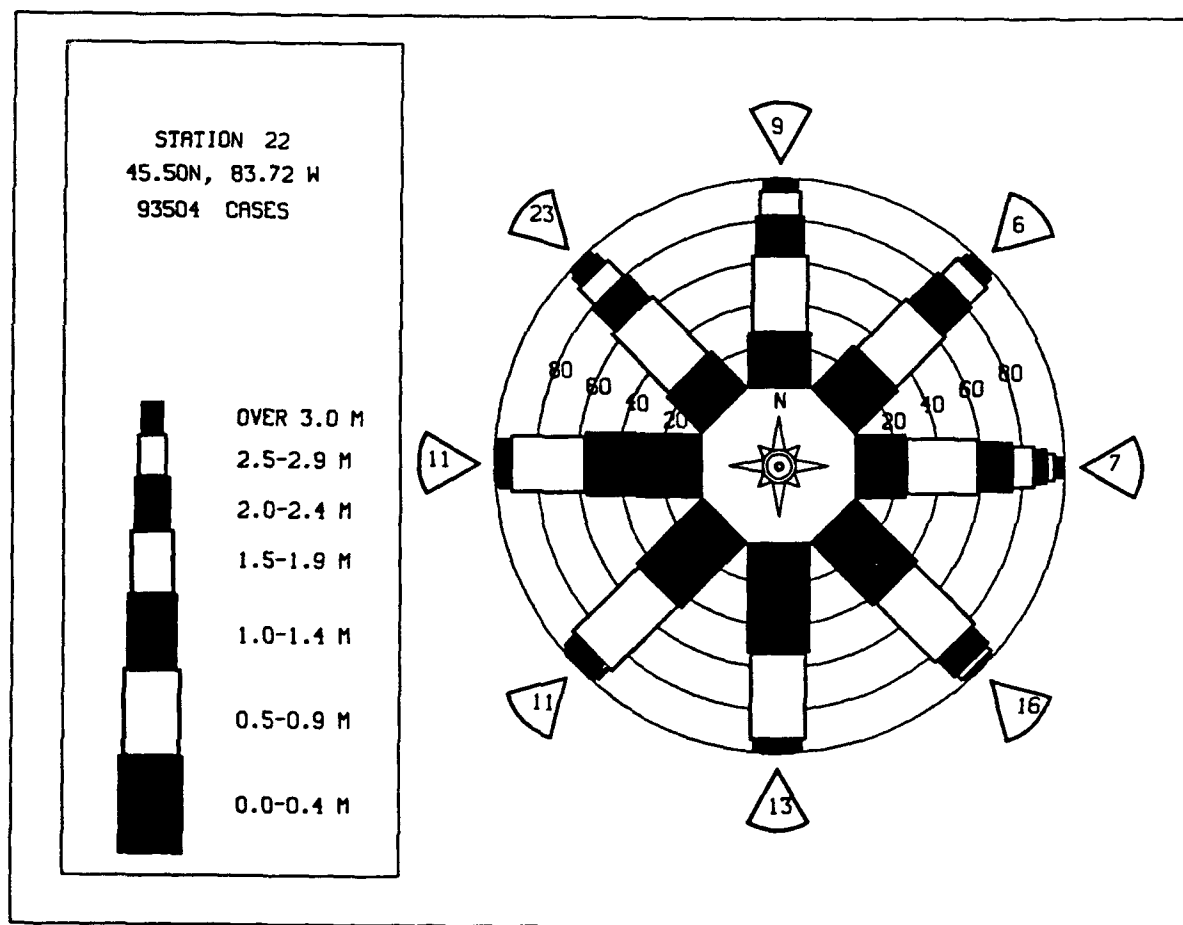
STATION H22 45.50N 83.72W AZIMUTH(DEGREES) =315.0											
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	549	1713	675	36	4	.	.	.	.	.	2977
0.50-0.99	.	1328	3380	1218	17	3	.	.	.	.	5946
1.00-1.49	.	.	762	1589	201	1	.	.	.	.	2553
1.50-1.99	.	.	64	1162	639	14	.	.	.	.	1879
2.00-2.49	.	.	.	36	905	23	.	.	.	.	964
2.50-2.99	.	.	.	1	255	170	1	.	.	.	427
3.00-3.49	115	2	.	.	.	117
3.50-3.99	13	19	.	.	.	32
4.00-4.49	9	.	.	.	9
4.50-4.99	2	.	.	.	2
5.00-5.49	1	.	.	.	1
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	549	3041	4881	4042	2021	339	34	0	0	0	13950.

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.2 MEAN TP(SEC)= 4.3 NO. OF CASES= 13950.

STATION H22 45.50N 83.72W AZIMUTH(DEGREES) =337.5											
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	387	859	115	21	4	.	1	.	.	.	1387
0.50-0.99	.	542	1488	237	8	1	.	.	.	.	2276
1.00-1.49	.	.	408	696	12	.	.	.	.	.	1116
1.50-1.99	.	.	3	797	168	2	.	.	.	.	970
2.00-2.49	.	.	.	10	473	1	.	.	.	.	484
2.50-2.99	150	51	.	.	.	.	201
3.00-3.49	1	38	.	.	.	.	39
3.50-3.99	14	.	.	.	.	14
4.00-4.49	3	.	.	.	3
4.50-4.99	1	.	.	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	387	1401	2014	1761	816	107	5	0	0	0	6081.

MEAN HS(M) = 1.0 LARGEST HS(M)= 4.6 MEAN TP(SEC)= 4.2 NO. OF CASES= 6081.

STATION H22 45.50N 83.72W FOR ALL DIRECTIONS											
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1381	1809	338	115	58	21	4				3726
0.50-0.99		2007	1415	383	73	22	9	1			3910
1.00-1.49			543	505	124	22	7				1201
1.50-1.99			40	432	160	30	7				669
2.00-2.49				17	232	25	11				285
2.50-2.99					61	44	12	1			118
3.00-3.49						29	9	1			39
3.50-3.99						4	10	1			15
4.00-4.49							6	1			7
4.50-4.99							1	1			2
5.00-5.49								1			1
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	1381	3816	2336	1452	708	197	76	7	0	0	
MEAN HS(M)=	0.7	LARGEST HS(M)=	7.4	MEAN TP(SEC)=	3.7	TOTAL CASES=	93504.				



MEAN HS(METERS) BY MONTH AND YEAR													
WIS STATION H22 (45.50N 83.72W)													
MONTH													
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
YEAR													MEAN
1956	0.7	0.8	0.8	1.0	0.8	0.6	0.5	0.4	0.5	0.8	0.8	0.8	0.7
1957	0.7	0.7	0.8	0.8	0.8	0.7	0.5	0.5	0.6	0.7	1.0	0.9	0.7
1958	0.8	1.1	0.6	0.9	0.9	0.8	0.5	0.7	0.8	0.9	1.0	0.7	0.8
1959	1.0	1.0	0.7	1.0	0.9	0.8	0.5	0.6	0.6	0.9	0.8	1.0	0.8
1960	0.8	1.0	0.7	1.0	0.8	0.6	0.5	0.5	0.6	0.8	0.8	0.7	0.7
1961	0.6	0.7	1.2	1.0	0.8	0.6	0.5	0.5	0.6	0.6	0.7	0.9	0.7
1962	0.8	0.8	0.8	0.8	0.7	0.6	0.5	0.5	0.6	0.6	0.6	0.7	0.6
1963	0.5	0.6	0.8	0.9	0.8	0.6	0.5	0.5	0.6	0.6	0.6	0.7	0.7
1964	0.8	1.0	0.8	0.8	0.8	0.6	0.5	0.5	0.6	0.6	0.8	0.7	0.7
1965	0.8	1.0	0.8	0.9	0.9	0.7	0.5	0.5	0.6	0.6	0.8	0.7	0.7
1966	0.8	1.0	0.8	0.9	0.9	0.5	0.5	0.5	0.7	0.7	0.6	0.6	0.7
1967	0.8	0.8	0.8	0.8	0.7	0.5	0.5	0.4	0.5	0.7	0.6	0.7	0.6
1968	0.7	0.9	0.7	0.8	0.8	0.7	0.5	0.5	0.5	0.6	0.9	1.0	0.7
1969	0.8	0.7	0.8	0.8	0.6	0.5	0.5	0.4	0.4	0.6	0.6	0.8	0.6
1970	0.6	0.7	0.8	0.9	0.8	0.5	0.5	0.4	0.4	0.6	0.8	0.9	0.7
1971	0.9	0.9	0.9	0.8	0.7	0.5	0.5	0.5	0.4	0.6	0.6	0.9	0.7
1972	0.7	0.7	0.8	0.9	0.5	0.5	0.4	0.4	0.5	0.7	0.6	0.7	0.6
1973	0.7	0.7	0.8	1.0	0.8	0.4	0.5	0.4	0.5	0.7	0.9	0.7	0.7
1974	0.6	0.7	0.9	0.7	0.6	0.6	0.5	0.5	0.6	0.6	0.7	0.7	0.7
1975	0.9	0.7	1.1	1.0	0.6	0.6	0.6	0.6	0.6	0.6	0.8	0.8	0.8
1976	0.9	0.9	0.9	1.0	0.8	0.6	0.7	0.6	0.7	0.7	0.8	0.8	0.8
1977	0.8	1.1	0.8	0.9	0.8	0.8	0.8	0.6	0.8	0.8	0.9	1.0	0.9
1978	1.1	1.0	0.7	0.8	1.2	0.8	0.7	0.8	0.7	0.7	0.8	0.8	0.8
1979	1.0	0.9	0.8	1.1	0.9	0.8	0.6	0.8	0.8	0.8	0.8	0.8	0.8
1980	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.9	0.8
1981	0.7	0.9	1.1	1.1	0.7	0.8	0.6	0.6	0.7	0.6	0.9	0.7	0.8
1982	0.8	0.8	1.1	1.1	0.8	0.6	0.5	0.6	0.6	0.6	0.7	0.7	0.8
1983	0.8	0.8	1.1	1.1	0.9	0.8	0.5	0.4	0.6	0.6	0.8	0.7	0.8
1984	0.7	0.8	1.1	1.1	1.1	0.7	0.5	0.4	0.7	0.6	0.8	0.9	0.8
1985	0.9	0.8	1.1	1.1	0.9	0.8	0.6	0.6	0.6	0.7	1.0	0.7	0.8
1986	0.9	0.8	1.1	1.1	0.8	0.8	0.6	0.6	0.6	0.6	0.7	0.8	0.8
1987	0.9	0.8	1.0	1.2	0.8	0.8	0.8	0.8	0.7	0.7	0.9	0.9	0.9
MEAN	0.8	0.8	0.9	0.9	0.8	0.6	0.6	0.5	0.6	0.7	0.8	0.8	

LARGEST HS(METERS) BY MONTH AND YEAR												
	WIS STATION H22 (45.50N 83.72W)											
	MONTH											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
YEAR												
1956	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1957	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1958	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1959	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1960	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1961	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1962	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1963	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1964	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1965	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1966	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1967	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1968	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1969	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1970	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1971	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1972	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1973	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1974	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1975	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1976	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1977	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1978	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1979	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1980	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1981	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1982	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1983	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1984	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1985	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1986	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1987	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1

32 YR. STATISTICS FOR WIS STATION H22

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.7
MEAN PEAK WAVE PERIOD	(SECONDS)	3.7
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . .	(DEGREES)	315.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.6
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.3
LARGEST WAVE HS	(METERS)	7.4
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . .	(DEGREES)	101.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		65031803

STATION H23 45.63N 83.90W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	726	967	67	53	6	1	.	.	.	.	1820
0.50-0.99	.	765	616	29	40	4	.	.	.	.	1454
1.00-1.49	.	.	649	124	5	3	2	.	.	.	783
1.50-1.99	.	.	1	262	1	.	.	.	.	.	264
2.00-2.49	.	.	.	8	10	.	.	.	.	.	18
2.50-2.99	4	.	.	.	.	.	4
3.00-3.49	0
3.50-3.99	1	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	726	1732	1333	476	66	9	2	0	0	0	
MEAN HS (M) = 0.7	LARGEST HS (M) =		3.6	MEAN TP (SEC) =		3.4	NO. OF CASES =		4069.		

STATION H23 45.63N 83.90W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	527	744	57	40	6	.	.	.	.	.	1374
0.50-0.99	.	480	531	19	32	3	.	.	.	.	1065
1.00-1.49	.	.	341	141	5	3	2	.	.	.	492
1.50-1.99	.	.	.	178	1	.	1	.	.	.	181
2.00-2.49	.	.	1	2	36	.	.	.	.	.	38
2.50-2.99	12	.	.	.	.	.	12
3.00-3.49	0
3.50-3.99	1	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	527	1224	930	380	92	7	3	0	0	0	
MEAN HS (M) = 0.6 LARGEST HS (M) = 3.5 MEAN TP (SEC) = 3.5 NO. OF CASES = 2964.											

STATION H23 45.63N 83.90W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	647	630	75	54	3	.	.	.	.	.	1409
0.50-0.99	.	363	589	44	31	4	.	.	.	.	1031
1.00-1.49	.	.	373	260	4	4	1	.	.	.	642
1.50-1.99	.	.	.	288	9	.	1	.	.	.	298
2.00-2.49	.	.	.	7	116	.	.	.	.	.	124
2.50-2.99	26	.	1	.	.	.	27
3.00-3.49	1	7	.	.	.	.	8
3.50-3.99	3	.	.	.	.	3
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	647	993	1037	653	190	18	4	0	0	0	
MEAN HS (M) = 0.8	LARGEST HS (M) =		3.7	MEAN TP (SEC) =		3.7	NO. OF CASES =		3322.		

STATION H23 45.63N 83.90W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	451	545	74	35	1	.	.	.	.	.	1106
0.50-0.99	.	343	561	65	20	.	.	1	.	.	990
1.00-1.49	.	.	264	266	11	7	3	.	.	.	551
1.50-1.99	.	.	.	263	69	1	1	.	.	.	334
2.00-2.49	.	.	.	3	125	.	1	.	.	.	129
2.50-2.99	33	24	.	.	.	.	57
3.00-3.49	2	18	.	.	.	.	20
3.50-3.99	2	3	.	.	.	5
4.00-4.49	4	.	.	.	4
4.50-4.99	2	.	.	.	2
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	451	888	899	632	261	52	14	1	0	0	
MEAN HS (M) = 0.8 LARGEST HS (M) = 4.6 MEAN IP (SEC) = 3.9 NO. OF CASES = 2998											

STATION H23 45.63N 83.90W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	591	629	98	40	8	.	.	.	.	.	1366
0.50-0.99	.	445	772	121	28	2	.	.	.	.	1368
1.00-1.49	.	.	176	360	29	19	1	.	.	.	585
1.50-1.99	.	.	1	293	171	5	1	.	.	.	471
2.00-2.49	.	.	.	1	243	2	2	1	.	.	249
2.50-2.99	60	91	.	.	.	.	151
3.00-3.49	55	1	.	.	.	56
3.50-3.99	11	8	.	.	.	19
4.00-4.49	9	1	.	.	10
4.50-4.99	2	.	.	.	2
5.00-5.49	1	1	.	.	2
5.50-5.99	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	591	1074	1047	815	539	185	25	4	0	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 5.9 MEAN TP(SEC)= 4.1 NO. OF CASES= 4016.

STATION H23 45.63N 83.90W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	819	724	163	55	5	.	.	.	.	.	1766
0.50-0.99	.	629	1109	164	74	4	.	.	.	.	1980
1.00-1.49	.	.	394	413	105	23	2	.	.	.	937
1.50-1.99	.	.	2	317	262	51	11	.	.	.	643
2.00-2.49	.	.	.	7	220	55	20	1	.	.	303
2.50-2.99	45	97	26	.	.	.	168
3.00-3.49	43	28	3	2	.	76
3.50-3.99	9	19	2	.	.	30
4.00-4.49	10	.	.	.	10
4.50-4.99	2	.	.	.	2
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	819	1353	1668	956	711	282	118	6	2	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.7 MEAN TP(SEC)= 4.1 NO. OF CASES= 5547.

STATION H23 45.63N 83.90W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1503	1581	732	585	296	94	26	.	.	.	4817
0.50-0.99	.	1278	1841	363	327	139	49	4	.	.	4001
1.00-1.49	.	.	758	330	172	96	49	6	.	.	1411
1.50-1.99	.	.	6	268	117	78	35	5	1	.	510
2.00-2.49	.	.	.	16	28	62	51	4	.	.	161
2.50-2.99	17	45	3	.	.	65
3.00-3.49	7	6	.	.	13
3.50-3.99	1	2	1	.	4
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1503	2859	3337	1562	940	486	263	30	2	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.8 MEAN TP(SEC)= 4.0 NO. OF CASES= 10281.

STATION H23 45.63N 83.90W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	2082	1994	405	372	290	154	28	2	.	.	5325
0.50-0.99	.	2079	412	196	120	70	41	2	.	.	2920
1.00-1.49	.	.	237	41	40	28	22	4	2	.	374
1.50-1.99	.	.	10	24	6	7	14	3	2	1	67
2.00-2.49	.	.	.	4	1	.	7	1	1	.	14
2.50-2.99	1	.	.	.	1
3.00-3.49	0
3.50-3.99	0
4.00-4.49	1	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	2082	4073	1064	637	457	259	113	10	6	1	

MEAN HS(M) = 0.4 LARGEST HS(M)= 4.2 MEAN TP(SEC)= 3.4 NO. OF CASES= 8151.

STATION H23 45.63N 83.90W		AZIMUTH(DEGREES) =247.5									TOTAL
PERCENT OCCURRENCE(X1000)		OF HEIGHT AND PERIOD BY DIRECTION									
HEIGHT (METRES)	PEAK PERIOD(SECONDS)										
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1201	1032	66	41	10	1	.	.	.	2351	
0.50-0.99	.	1435	824	16	22	3	.	.	.	2299	
1.00-1.49	.	1	59	82	1	3	1	.	.	584	
1.50-1.99	.	.	2	198	.	.	.	.	.	200
2.00-2.49	.	.	.	20	8	.	.	.	.	28
2.50-2.99	3	.	.	.	1	4	
3.00-3.49	0	
3.50-3.99	0	
4.00-4.49	0	
4.50-4.99	0	
5.00-5.49	0	
5.50-5.99	0	
6.00-6.49	0	
6.50-6.99	0	
7.00+	0	
TOTAL	1201	2468	1487	357	44	7	1	0	0	1	
MEAN HS(M) = 0.6	LARGEST HS(M)=		2.8	MEAN TP(SEC)=		3.2	NO. OF CASES=		5211.		

STATION H23 45.63N 83.90W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1206	1303	72	60	14	.	.	.	.	.	2655
0.50-0.99	.	1288	707	13	28	6	.	.	.	.	2042
1.00-1.49	.	.	869	149	.	1	1	.	.	.	1020
1.50-1.99	.	.	.	366	.	.	.	.	.	.	367
2.00-2.49	.	.	1	31	28	.	.	.	.	.	59
2.50-2.99	14	.	.	.	.	.	14
3.00-3.49	2	.	.	.	.	.	2
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1206	2591	1649	619	86	7	1	0	0	0	
MEAN HS(M) = 0.6	LARGEST HS(M)= 3.1		MEAN TP(SEC)= 3.3		NO. OF CASES= 5770.						

STATION H23 45.63N 83.90W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	982	2089	71	45	3	1	.	.	.	.	3191
0.50-0.99	.	1531	1736	14	17	4	.	.	.	.	3302
1.00-1.49	.	.	1341	531	3	.	.	.	.	.	1875
1.50-1.99	.	.	1	980	25	.	1	.	.	.	1007
2.00-2.49	.	.	.	82	321	.	.	.	.	.	403
2.50-2.99	115	2	.	.	.	.	117
3.00-3.49	1	22	.	.	.	.	23
3.50-3.99	6	.	.	.	.	6
4.00-4.49	2	.	.	.	2
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	982	3620	3148	1652	485	35	3	0	0	0	
MEAN HS (M) = 0.8	LARGEST HS (M) = 4.4		MEAN TP (SEC) = 3.7		NO. OF CASES = 9292.						

STATION H23 45.63N 83.90W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	798	1892	59	55	4	.	.	.	.	.	2808
0.50-0.99	.	1218	3054	35	22	5	.	.	.	.	4334
1.00-1.49	.	.	1240	1314	1	1	.	1	.	.	2556
1.50-1.99	.	.	3	1608	89	.	.	.	.	.	1700
2.00-2.49	.	.	.	18	819	.	.	.	.	.	837
2.50-2.99	209	4	.	.	.	.	213
3.00-3.49	1	45	.	.	.	.	46
3.50-3.99	12	.	.	.	.	12
4.00-4.49	1	1	.	.	.	2
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	798	3110	4356	3030	1144	68	1	1	0	0	
MEAN HS(M) = 1.0	LARGEST HS(M)= 4.2		MEAN TP(SEC)= 4.1		NO. OF CASES= 11706.						

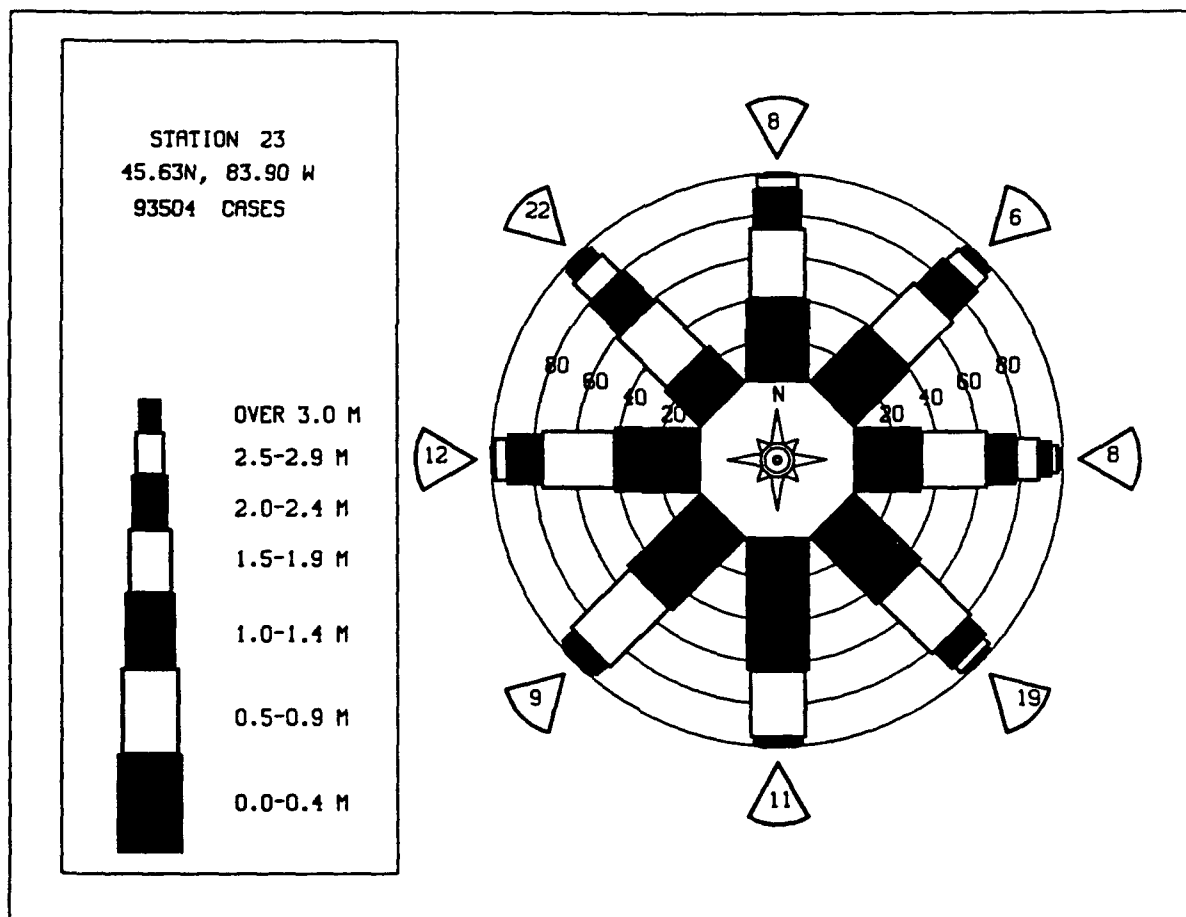
STATION H23 45.63N 83.90W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	669	1135	55	38	6	.	.	.	.	.	1903
0.50-0.99	.	901	1352	27	18	.	.	.	.	.	2299
1.00-1.49	.	.	960	567	2	2	.	.	.	.	1529
1.50-1.99	.	.	1	745	17	1	.	.	.	.	764
2.00-2.49	.	.	.	23	216	.	.	.	.	.	239
2.50-2.99	32	.	.	.	.	.	32
3.00-3.49	2	5	.	.	.	.	7
3.50-3.99	1	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	669	2036	2368	1400	292	9	0	0	0	0	
MEAN HS(M) = 0.9	LARGEST HS(M)=		3.6	MEAN TP(SEC)=		3.8	NO. OF CASES=		6342.		

STATION H23 45.63N 83.90W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	1675	1850	238	172	69	26	5	.	.	.	4035
0.50-0.99	.	1647	1539	124	93	29	9	.	.	.	3441
1.00-1.49	.	.	890	458	39	23	9	1	.	.	1420
1.50-1.99	.	.	6	594	77	14	7	.	.	.	698
2.00-2.49	.	.	.	24	218	11	8	.	.	.	261
2.50-2.99	56	23	7	.	.	.	86
3.00-3.49	19	3	.	.	.	22
3.50-3.99	4	3	.	.	.	7
4.00-4.49	2	.	.	.	2
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1675	3497	2673	1372	552	149	53	1	0	0	

MEAN HS(M)= 0.7 LARGEST HS(M)= 5.9 MEAN TP(SEC)= 3.6 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H23 (45.63N 83.90W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
YEAR													
1956	0.7	0.8	0.8	1.0	0.8	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1957	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8
1958	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1959	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1960	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1961	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1962	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1963	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1964	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1965	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1966	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1967	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1968	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1969	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1970	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1971	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1972	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1973	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1974	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1975	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1976	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1977	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1978	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1979	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1980	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1981	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1982	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1983	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1984	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1985	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1986	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1987	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
MEAN	0.8	0.8	0.9	0.9	0.7	0.6	0.5	0.5	0.6	0.7	0.8	0.8	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H23 (45.63N 83.90W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
YEAR													
1956	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1957	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1958	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1959	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1960	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1961	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1962	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1963	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1964	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1965	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1966	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1967	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1968	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1969	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1970	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1971	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1972	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1973	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1974	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1975	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1976	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1977	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1978	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1979	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1980	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1981	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1982	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1983	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1984	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1985	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1986	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	
1987	1.7	2.4	2.3	3.4	2.2	2.3	2.1	1.7	2.0	3.0	3.0	2.7	

32 YR. STATISTICS FOR WIS STATION H23

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	0.7
MEAN PEAK WAVE PERIOD (SECONDS)	3.6
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	315.0
STANDARD DEVIATION OF WAVE HS (METERS)	0.6
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.2
LARGEST WAVE HS (METERS)	5.9
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	9.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	94.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	65031800

STATION H24 45.63N 84.10W AZIMUTH(DEGREES) = 0.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	796	1141	68	50	11	3	.	.	.	.	2069
0.50-0.99	.	771	747	21	18	3	1	.	.	.	1561
1.00-1.49	.	.	712	148	2	1	.	.	.	.	868
1.50-1.99	.	.	.	265	1	.	.	.	.	.	267
2.00-2.49	.	.	.	8	16	.	.	.	.	.	20
2.50-2.99	1	.	.	.	.	.	6
3.00-3.49	1
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	796	1912	1527	492	51	12	2	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.4 MEAN TP(SEC)= 3.4 NO. OF CASES= 4488.

STATION H24 45.63N 84.10W AZIMUTH(DEGREES) = 22.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	669	724	55	44	9	2	1	.	.	.	1504
0.50-0.99	.	412	531	32	20	3	.	.	.	.	1001
1.00-1.49	.	.	381	139	3	1	2	.	.	.	546
1.50-1.99	.	.	2	177	3	.	.	.	.	.	183
2.00-2.49	.	.	.	4	37	.	.	.	.	.	41
2.50-2.99	7	.	1	.	.	.	8
3.00-3.49	1	.	.	.	.	0
3.50-3.99	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	669	1136	969	419	80	7	4	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.5 MEAN TP(SEC)= 3.4 NO. OF CASES= 3079.

STATION H24 45.63N 84.10W AZIMUTH(DEGREES) = 45.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	744	696	55	56	8	.	.	.	.	.	1559
0.50-0.99	.	335	579	32	25	4	.	.	.	.	975
1.00-1.49	.	.	337	251	9	2	1	.	.	.	600
1.50-1.99	.	.	.	284	6	.	.	.	.	.	293
2.00-2.49	.	.	.	9	89	1	.	.	.	.	99
2.50-2.99	16	7	.	.	.	.	17
3.00-3.49	2	.	.	.	.	.	9
3.50-3.99	1	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	744	1031	971	632	157	15	2	1	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.7 MEAN TP(SEC)= 3.6 NO. OF CASES= 3332.

STATION H24 45.63N 84.10W AZIMUTH(DEGREES) = 67.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	556	589	80	48	9	5	1	.	.	.	1288
0.50-0.99	.	344	587	57	13	4	1	.	.	.	1006
1.00-1.49	.	.	266	297	8	3	3	.	.	.	577
1.50-1.99	.	.	.	234	87	3	.	.	.	.	334
2.00-2.49	.	.	.	1	132	6	.	.	.	.	139
2.50-2.99	28	31	.	.	.	.	59
3.00-3.49	1	19	.	.	.	.	20
3.50-3.99	7	.	.	.	7
4.00-4.49	5	.	.	.	5
4.50-4.99	4	.	.	.	4
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	556	933	933	637	288	71	21	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.8 MEAN TP(SEC)= 3.9 NO. OF CASES= 3225.

STATION H24 45.63N 84.10W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	712	694	101	51	9	4	.	.	.	.	1567
0.50-0.99	.	517	823	113	25	7	.	1	.	.	1483
1.00-1.49	.	.	174	390	22	3	4	.	.	.	626
1.50-1.99	.	.	.	228	22	3	.	.	.	.	487
2.00-2.49	.	.	.	2	211	32	.	1	.	.	246
2.50-2.99	24	135	.	.	.	.	159
3.00-3.49	68	.	.	.	.	73
3.50-3.99	7	19	.	.	.	26
4.00-4.49	14	.	.	.	14
4.50-4.99	6	.	.	.	6
5.00-5.49	1	.	.	.	1
5.50-5.99	1	.	.	1
6.00-6.49	1	.	.	1
6.50-6.99	0
7.00+	0
TOTAL	712	1211	1098	784	573	256	52	4	0	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 6.4 MEAN TP(SEC)= 4.1 NO. OF CASES= 4398.

STATION H24 45.63N 84.10W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1087	841	197	87	19	2	2	.	.	.	2235
0.50-0.99	.	1048	1114	136	87	6	.	1	.	.	2392
1.00-1.49	.	.	362	474	158	42	.	.	.	.	1040
1.50-1.99	.	.	10	244	229	47	10	1	.	.	541
2.00-2.49	.	.	.	4	179	81	28	.	.	.	292
2.50-2.99	23	86	35	1	.	.	145
3.00-3.49	1	40	16	2	1	.	60
3.50-3.99	4	16	.	.	.	20
4.00-4.49	9	.	.	.	9
4.50-4.99	3	.	.	.	3
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1087	1889	1683	945	696	308	123	5	1	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.9 MEAN TP(SEC)= 4.0 NO. OF CASES= 6316.

STATION H24 45.63N 84.10W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1978	1555	452	328	220	86	26	.	.	.	4645
0.50-0.99	.	2548	1209	235	158	67	29	2	.	.	4248
1.00-1.49	.	.	443	395	193	69	27	1	1	.	1129
1.50-1.99	.	.	25	67	84	85	39	1	.	.	301
2.00-2.49	.	.	.	2	6	24	57	3	.	.	92
2.50-2.99	1	.	10	5	.	.	16
3.00-3.49	1	3	.	.	4
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1978	4103	2129	1027	662	331	189	15	1	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.3 MEAN TP(SEC)= 3.6 NO. OF CASES= 9772.

STATION H24 45.63N 84.10W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	2435	1853	318	204	113	55	10	.	.	.	4788
0.50-0.99	.	1957	321	104	97	30	11	.	.	.	2530
1.00-1.49	.	.	138	47	54	42	26	2	.	.	309
1.50-1.99	.	.	6	6	5	9	9	5	.	.	40
2.00-2.49	4	.	.	.	5
2.50-2.99	1	.	0
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	2435	3610	784	361	269	144	60	8	1	0	

MEAN HS(M) = 0.4 LARGEST HS(M)= 2.3 MEAN TP(SEC)= 3.1 NO. OF CASES= 7185.

STATION H24 45.63N 84.10W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	2041	1327	176	155	57	7	1	.	.	.	3764
0.50-0.99	.	1279	196	50	71	33	5	2	.	.	1636
1.00-1.49	.	.	113	25	9	11	6	4	.	.	145
1.50-1.99	.	.	13	2	3	1	.	.	1	.	23
2.00-2.49	0
2.50-2.99	0
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	2041	2606	498	214	140	52	12	6	1	0	

MEAN HS(M) = 0.4 LARGEST HS(M)= 2.2 MEAN TP(SEC)= 2.9 NO. OF CASES= 5217.

STATION H24 45.63N 84.10W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1471	958	119	79	29	5	2	.	.	.	2664
0.50-0.99	.	1239	421	19	32	18	4	.	.	.	1733
1.00-1.49	.	.	229	3	1	6	3	.	.	.	242
1.50-1.99	.	.	8	43	.	.	2	2	.	.	53
2.00-2.49	.	.	.	6	2	.	.	1	1	.	10
2.50-2.99	0
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1471	2198	777	150	64	29	11	3	1	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.4 MEAN TP(SEC)= 3.0 NO. OF CASES= 4407.

STATION H24 45.63N 84.10W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1562	1022	93	80	33	4	1	.	.	.	2795
0.50-0.99	.	1398	638	13	18	8	2	.	.	.	2077
1.00-1.49	.	.	363	1	4	3	3	.	.	.	374
1.50-1.99	.	.	3	104	.	.	.	.	.	.	107
2.00-2.49	.	.	.	10	2	.	.	.	.	.	12
2.50-2.99	1	.	.	.	.	.	1
3.00-3.49	1	.	.	.	.	.	1
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1562	2420	1097	208	59	15	6	0	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 3.1 MEAN TP(SEC)= 3.0 NO. OF CASES= 5026.

STATION H24 45.63N 84.10W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1324	1032	74	56	21	2	1	.	.	.	2510
0.50-0.99	.	1855	451	12	16	6	2	.	.	.	2342
1.00-1.49	.	.	298	9	2	1	1	1	.	.	303
1.50-1.99	.	.	.	58	.	.	.	.	.	.	67
2.00-2.49	.	.	.	4	2	.	.	.	.	1	7
2.50-2.99	1	.	.	.	.	.	1
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1324	2887	832	130	42	9	4	1	0	1	

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.5 MEAN TP(SEC)= 3.0 NO. OF CASES= 4897.

STATION H24 45.63N 84.10W AZIMUTH(DEGREES) =270.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1503	1335	71	83	22	2	1	.	.	.	3017
0.50-0.99	.	1880	355	6	23	.	.	.	.	.	2271
1.00-1.49	.	.	393	.	.	.	.	.	.	.	393
1.50-1.99	.	.	51	34	.	.	.	.	.	.	85
2.00-2.49	.	.	.	9	.	.	.	.	.	.	9
2.50-2.99	.	.	.	1	.	.	.	.	.	.	1
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1503	3215	870	133	45	9	1	0	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.5 MEAN TP(SEC)= 3.0 NO. OF CASES= 5407.

STATION H24 45.63N 84.10W AZIMUTH(DEGREES) =292.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1383	1935	52	40	21	4	1	.	.	.	3436
0.50-0.99	.	2704	817	6	13	3	.	.	.	.	3543
1.00-1.49	.	.	827	2	1	.	.	.	.	.	830
1.50-1.99	.	.	96	251	.	.	.	.	.	.	347
2.00-2.49	.	.	.	44	3	.	.	.	.	.	47
2.50-2.99	4	.	.	.	.	.	4
3.00-3.49	2	.	.	.	.	.	2
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1383	4639	1792	343	44	7	1	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.1 MEAN TP(SEC)= 3.2 NO. OF CASES= 7684.

STATION H24 45.63N 84.10W AZIMUTH(DEGREES) =315.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1055	1941	70	60	17	2	.	.	.	.	3145
0.50-0.99	.	3832	2558	8	18	3	.	.	.	.	6419
1.00-1.49	.	.	2437	20	.	1	.	.	.	.	2458
1.50-1.99	.	.	42	1125	.	.	.	.	.	.	1167
2.00-2.49	.	.	.	114	18	.	.	.	.	.	132
2.50-2.99	24	.	.	.	.	.	24
3.00-3.49	2	.	.	.	.	.	2
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1055	5773	5107	1327	79	6	0	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 3.1 MEAN TP(SEC)= 3.5 NO. OF CASES= 12487.

STATION H24 45.63N 84.10W AZIMUTH(DEGREES) =337.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

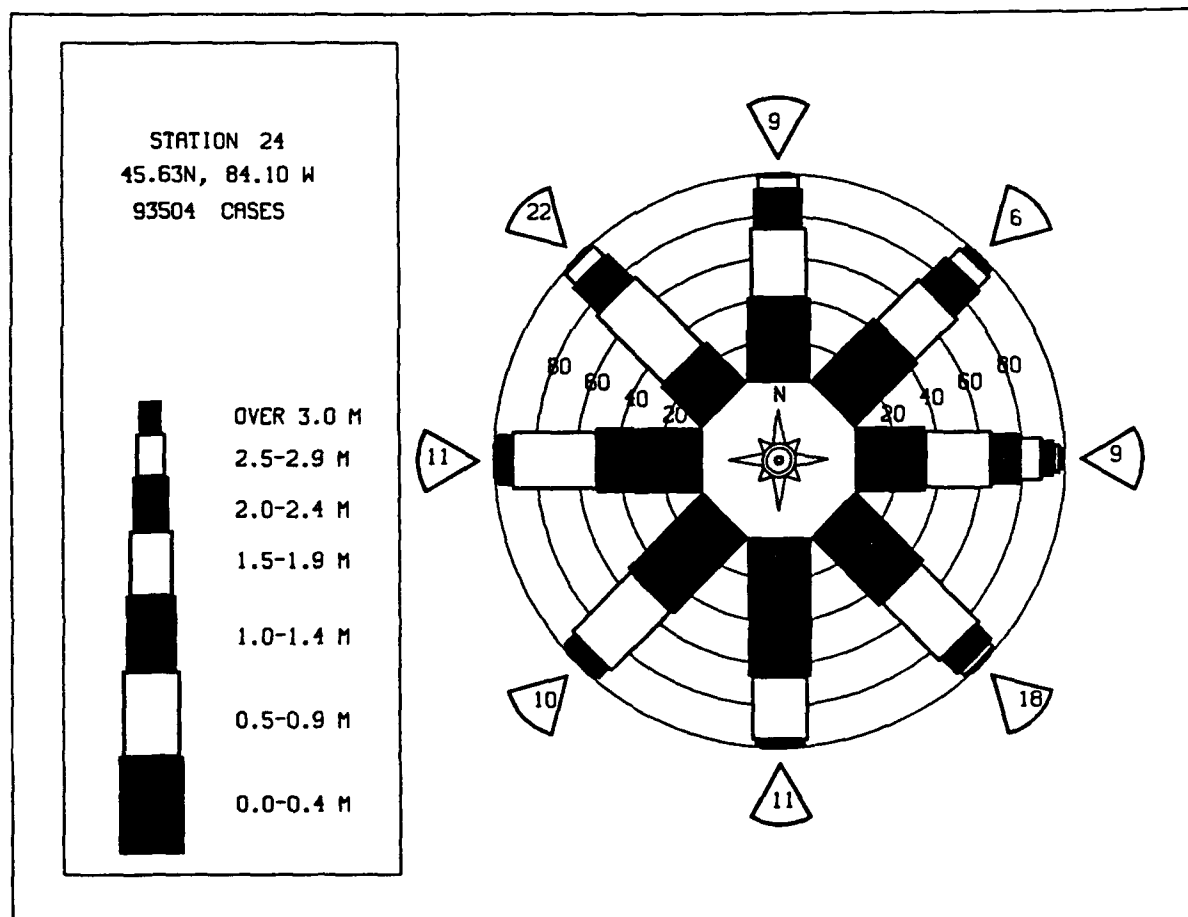
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	726	1288	41	33	12	2	1	.	.	.	2103
0.50-0.99	.	1593	1313	16	18	1	.	.	.	.	2941
1.00-1.49	.	.	1181	172	.	1	1	.	.	.	1355
1.50-1.99	.	.	25	551	.	.	.	.	.	.	576
2.00-2.49	.	.	.	31	23	.	.	.	.	.	54
2.50-2.99	5	.	.	.	.	.	5
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	726	2881	2560	803	58	4	2	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 2.7 MEAN TP(SEC)= 3.5 NO. OF CASES= 6584.

STATION H24 45.63N 84.10W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	2004	1873	203	146	61	18	5	.	.	.	4310
0.50-0.99	.	2371	1266	87	65	21	5	.	.	.	3815
1.00-1.49	.	.	866	236	50	19	8	.	.	.	1179
1.50-1.99	.	.	29	368	68	15	6	.	.	.	486
2.00-2.49	.	.	.	25	72	14	9	.	.	.	120
2.50-2.99	14	25	4	.	.	.	43
3.00-3.49	1	13	2	.	.	.	16
3.50-3.99	1	4	.	.	.	5
4.00-4.49	2	.	.	.	2
4.50-4.99	1	.	.	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	2004	4244	2364	862	331	126	46	0	0	0	93504

MEAN HS(M)= 0.6 LARGEST HS(M)= 6.4 MEAN TP(SEC)= 3.4 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H24 (45.63N 84.10W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.6	0.7	0.8	0.9	0.7	0.6	0.5	0.4	0.5	0.8	0.8	0.8	0.7
1957	0.7	0.7	0.7	0.8	0.9	0.7	0.6	0.3	0.5	0.6	0.9	0.9	0.7
1958	0.8	0.9	0.6	0.9	0.9	0.8	0.8	0.8	0.7	0.8	1.0	0.9	0.8
1959	0.8	0.9	0.6	0.9	0.9	0.8	0.5	0.6	0.6	0.8	0.7	0.6	0.6
1960	0.7	0.8	0.6	0.7	0.7	0.7	0.4	0.3	0.5	0.6	0.6	0.6	0.6
1961	0.5	0.6	0.5	0.8	0.7	0.6	0.4	0.4	0.6	0.9	0.6	0.6	0.6
1962	0.7	0.7	0.5	0.7	0.6	0.7	0.4	0.4	0.6	0.9	0.6	0.6	0.6
1963	0.5	0.5	0.7	1.0	0.9	0.8	0.4	0.4	0.6	0.6	0.6	0.6	0.5
1964	0.8	0.6	0.8	0.7	0.6	0.7	0.5	0.8	0.5	0.6	0.7	0.7	0.7
1965	0.8	0.9	0.9	0.8	0.7	0.8	0.4	0.5	0.5	0.7	0.7	0.6	0.6
1966	0.7	0.7	0.9	0.8	0.7	0.8	0.4	0.5	0.5	0.7	0.7	0.7	0.6
1967	0.7	0.7	0.9	0.7	0.7	0.8	0.4	0.5	0.5	0.6	0.5	0.7	0.6
1968	0.7	0.8	0.6	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.6
1969	0.7	0.6	0.7	0.7	0.5	0.7	0.4	0.4	0.4	0.5	0.5	0.7	0.7
1970	0.4	0.6	0.7	0.8	0.7	0.5	0.5	0.4	0.6	0.7	0.8	0.8	0.6
1971	0.7	0.8	0.8	0.7	0.6	0.4	0.4	0.5	0.4	0.6	0.6	0.7	0.6
1972	0.7	0.6	0.8	0.7	0.5	0.5	0.4	0.4	0.5	0.6	0.6	0.7	0.6
1973	0.7	0.6	0.8	1.0	0.7	0.4	0.4	0.4	0.5	0.6	0.8	0.7	0.6
1974	0.6	0.6	0.9	0.6	0.6	0.5	0.4	0.4	0.5	0.6	0.6	0.6	0.6
1975	0.7	0.6	0.8	0.8	0.4	0.5	0.5	0.5	0.7	0.7	0.7	0.6	0.6
1976	0.7	0.7	1.0	0.7	0.7	0.5	0.6	0.5	0.5	0.6	0.6	0.6	0.6
1977	0.6	0.9	0.8	0.7	0.7	0.6	0.6	0.5	0.6	0.7	0.7	0.8	0.7
1978	0.9	0.5	0.6	1.0	0.6	0.5	0.5	0.5	0.7	0.6	0.7	0.7	0.6
1979	0.7	0.7	0.8	0.8	0.7	0.8	0.4	0.5	0.5	0.6	0.6	0.7	0.7
1980	0.7	0.5	0.8	0.8	0.5	0.6	0.4	0.5	0.6	0.7	0.7	0.7	0.6
1981	0.5	0.7	0.6	0.8	0.6	0.5	0.4	0.4	0.6	0.6	0.6	0.6	0.6
1982	0.8	0.6	0.9	0.8	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6
1983	0.7	0.7	0.9	0.8	0.7	0.5	0.4	0.4	0.5	0.7	1.1	0.6	0.6
1984	0.5	0.6	0.9	0.9	0.7	0.5	0.4	0.3	0.5	0.6	0.7	0.7	0.6
1985	0.6	0.6	0.9	0.7	0.6	0.6	0.4	0.4	0.4	0.6	0.7	0.5	0.6
1986	0.7	0.7	0.8	0.9	0.6	0.6	0.4	0.5	0.5	0.5	0.7	0.7	0.6
1987	0.7	0.7	0.8	1.0	0.7	0.6	0.6	0.5	0.6	0.5	0.8	0.7	0.7
MEAN	0.7	0.7	0.8	0.8	0.7	0.5	0.5	0.5	0.5	0.6	0.7	0.7	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H24 (45.63N 84.10W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	2.0	3.3	3.4	3.5	2.7	1.7	1.6	1.6	1.8	2.7	2.3	2.8	
1957	2.0	2.2	2.8	2.6	2.7	2.2	2.8	1.6	2.2	2.2	2.2	2.7	
1958	2.3	3.0	2.7	3.0	3.0	2.2	2.3	1.7	2.2	2.2	2.2	2.2	
1959	2.2	2.4	2.4	2.4	2.4	2.2	2.2	1.7	2.2	2.2	2.2	2.2	
1960	2.3	2.8	3.5	2.1	2.2	2.6	2.7	1.7	2.2	2.2	2.2	2.2	
1961	2.3	2.8	2.4	2.4	2.2	2.4	2.2	1.7	2.2	2.2	2.2	2.2	
1962	2.3	2.8	2.6	2.2	2.2	2.2	2.2	1.5	2.2	2.2	2.2	2.2	
1963	2.3	2.8	2.6	2.2	2.2	2.2	2.2	1.5	2.2	2.2	2.2	2.2	
1964	2.3	2.8	2.6	2.6	2.2	2.2	2.2	1.5	2.2	2.2	2.2	2.2	
1965	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.2	2.2	2.2	2.2	2.2	
1966	2.4	1.9	4.0	4.8	2.6	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
1967	2.3	2.6	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
1968	2.8	2.7	2.2	2.3	4.0	2.4	2.2	1.5	2.2	2.2	2.2	2.2	
1969	2.6	1.6	2.2	2.6	2.4	2.2	2.2	1.5	2.2	2.2	2.2	2.2	
1970	1.9	2.2	2.2	2.2	2.2	2.2	2.2	1.5	2.2	2.2	2.2	2.2	
1971	3.8	3.1	3.2	2.2	2.2	2.2	2.2	1.4	2.2	2.2	2.2	2.2	
1972	2.8	1.8	2.8	4.3	1.7	2.2	2.2	1.0	2.2	2.2	2.2	2.2	
1973	2.8	2.5	2.9	4.6	2.8	2.2	2.2	1.4	2.2	2.2	2.2	2.2	
1974	2.6	2.4	3.0	3.1	1.8	2.2	2.2	1.5	2.2	2.2	2.2	2.2	
1975	2.6	3.1	4.2	2.5	1.6	2.2	2.2	1.6	2.2	2.2	2.2	2.2	
1976	2.4	2.1	4.2	2.5	1.8	2.2	2.2	1.8	2.2	2.2	2.2	2.2	
1977	1.9	3.6	3.2	4.1	2.7	2.2	2.2	1.7	2.2	2.2	2.2	2.2	
1978	3.5	1.7	2.7	2.9	1.9	2.2	2.2	1.6	2.2	2.2	2.2	2.2	
1979	2.4	2.9	2.2	3.4	2.1	2.2	2.2	1.6	2.2	2.2	2.2	2.2	
1980	2.0	2.4	2.8	2.7	1.7	2.2	2.2	1.5	2.2	2.2	2.2	2.2	
1981	1.7	1.9	2.4	2.9	1.9	2.2	2.2	1.8	2.2	2.2	2.2	2.2	
1982	4.4	2.8	3.0	3.4	1.9	2.2	2.2	1.7	2.2	2.2	2.2	2.2	
1983	2.4	2.3	2.5	3.3	2.5	2.2	2.2	1.4	2.2	2.2	2.2	2.2	
1984	2.4	2.4	2.5	3.1	2.0	2.2	2.2	1.5	2.2	2.2	2.2	2.2	
1985	2.4	2.0	2.5	2.9	1.5	2.2	2.2	1.4	2.2	2.2	2.2	2.2	
1986	2.1	2.3	2.5	2.6	2.6	2.2	2.2	1.5	2.2	2.2	2.2	2.2	
1987	2.5	3.4	3.6	2.6	2.8	1.8	1.6	1.6	2.7	2.2	2.3	2.8	

32 YR. STATISTICS FOR WIS STATION H24

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	0.6
MEAN PEAK WAVE PERIOD (SECONDS)	3.4
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	315.0
STANDARD DEVIATION OF WAVE HS (METERS)	0.5
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.1
LARGEST WAVE HS (METERS)	6.4
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	9.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	93.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	65031800

STATION H25 45.78N 84.10W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	709	729	50	44	11	1	1	.	.	.	1545
0.50-0.99	.	1586	388	25	49	10	2	.	.	.	2060
1.00-1.49	.	.	302	6	5	4	1	.	.	.	318
1.50-1.99	.	.	19	13	.	.	1	.	.	.	33
2.00-2.49	.	.	.	3	.	.	.	.	.	.	3
2.50-2.99	0
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	709	2315	759	91	65	15	5	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.2 MEAN TP(SEC)= 3.1 NO. OF CASES= 3709.

STATION H25 45.78N 84.10W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	743	581	73	36	12	1	.	.	.	.	1446
0.50-0.99	.	896	340	27	35	3	1	.	.	.	1302
1.00-1.49	.	.	193	5	7	10	5	.	.	.	220
1.50-1.99	.	.	11	35	2	2	2	1	.	.	53
2.00-2.49	.	.	.	1	1	.	.	.	.	.	2
2.50-2.99	0
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	743	1477	617	104	57	16	8	1	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.4 MEAN TP(SEC)= 3.1 NO. OF CASES= 2835.

STATION H25 45.78N 84.10W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	1014	552	83	54	19	1	.	.	.	.	1723
0.50-0.99	.	798	474	19	58	9	1	.	.	.	1360
1.00-1.49	.	.	310	22	8	13	4	.	.	.	357
1.50-1.99	.	.	21	79	4	2	2	.	.	.	108
2.00-2.49	.	.	.	10	5	.	.	1	.	.	16
2.50-2.99	1	1	.	2
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1014	1350	888	184	95	25	8	1	1	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.9 MEAN TP(SEC)= 3.2 NO. OF CASES= 3345.

STATION H25 45.78N 84.10W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	940	427	85	79	10	2	.	.	.	.	1543
0.50-0.99	.	732	531	26	28	7	.	.	.	.	1325
1.00-1.49	.	.	257	116	9	13	.	.	.	.	395
1.50-1.99	.	.	16	173	27	2	7	.	.	.	225
2.00-2.49	.	.	.	6	58	2	2	.	.	.	66
2.50-2.99	14	2	.	.	.	.	16
3.00-3.49	7	.	.	.	.	7
3.50-3.99	2	.	.	.	5
4.00-4.49	3	.	.	.	.	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	940	1159	889	400	147	36	11	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.8 MEAN TP(SEC)= 3.4 NO. OF CASES= 3362.

STATION H25 45.78N 84.10W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1255	651	193	101	17	2	.	.	.	.	2219
0.50-0.99	.	665	938	97	77	7	.	.	.	.	1784
1.00-1.49	.	.	245	358	39	37	7	.	.	.	686
1.50-1.99	.	.	1	341	86	8	6	.	.	.	442
2.00-2.49	.	.	.	4	188	1	8	1	.	.	202
2.50-2.99	68	18	2	.	.	.	89
3.00-3.49	3	20	1	1	.	.	25
3.50-3.99	6	.	.	.	.	6
4.00-4.49	1	.	.	1	.	2
4.50-4.99	1	.	.	.	1
5.00-5.49	1	.	.	.	1
5.50-5.99	1	.	.	.	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1255	1316	1377	901	478	100	27	3	1	0	
MEAN HS(M) = 0.7	LARGEST HS(M)= 5.7		MEAN TP(SEC)= 3.7		NO. OF CASES= 5115.						

STATION H25 45.78N 84.10W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	1377	793	222	120	26	2					2540
0.50-0.99	.	979	1577	205	97	9	1	1	.	.	2869
1.00-1.49	.	.	515	806	113	48	1	1	.	.	1484
1.50-1.99	.	.	.	804	287	20	10		.	.	1121
2.00-2.49	.	.	.	8	432	56	14	1	.	.	513
2.50-2.99	105	121	27	3	1	.	257
3.00-3.49	6	52	38			.	96
3.50-3.99	17	32	5		1	57
4.00-4.49	3	17	2	2	.	24
4.50-4.99	7	3	.	.	10
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1377	1772	2314	1943	1066	330	147	16	5	1	
MEAN HS(M) = 1.0	LARGEST HS(M) = 4.9		MEAN TP(SEC) = 4.1		NO. OF CASES = 8405.						

STATION H25 45.78N 84.10W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1725	1357	703	521	310	83	17	.	.	4716	
0.50-0.99	.	1280	2271	457	313	146	51	2	.	4520	
1.00-1.49	.	.	722	813	170	73	35	7	2	1822	
1.50-1.99	.	.	5	606	141	35	27	6	.	820	
2.00-2.49	.	.	.	18	154	71	28	3	1	275	
2.50-2.99	39	28	32	4	2	104	
3.00-3.49	5	41	2	1	50	
3.50-3.99	6	4	.	11	
4.00-4.49	1	0	
4.50-4.99	1	1	
5.00-5.49	0	
5.50-5.99	0	
6.00-6.49	0	
6.50-6.99	0	
7.00+	0	
TOTAL	1725	2637	3701	2415	1127	441	237	28	9	0	
MEAN HS(M) = 0.7 LARGEST HS(M)= 5.0 MEAN TP(SEC)= 4.1 NO. OF CASES= 11536.											

STATION H25 45.78N 84.10W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	1864	1502	244	321	349	186	38	1	.	.	4505
0.50-0.99	.	1619	895	89	85	73	43	5	.	.	2810
1.00-1.49	.	.	536	82	18	20	23	7	3	.	689
1.50-1.99	.	.	7	121	4	3	9	1	.	.	145
2.00-2.49	.	.	.	10	5	2	1	1	2	1	22
2.50-2.99	3	.	3	1	.	.	7
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1864	3121	1682	623	464	284	117	16	6	1	
MEAN HS (M) = 0.5	LARGEST HS (M) = 2.9		MEAN TP (SEC) = 3.5		NO. OF CASES = 7661.						

STATION H25 45.78N 84.10W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	1515	1041	70	32	12	7	2				2679
0.50-0.99	.	1395	603	25	23	3	4	1	.	.	2054
1.00-1.49	.	.	468	40	3	7	3		.	.	521
1.50-1.99	.	.	7	102	.	.	.	2	1	.	112
2.00-2.49	.	.	.	13	2	.	1	.	.	.	16
2.50-2.99	2	.	.	.	.	.	2
3.00-3.49	1	.	.	.	.	.	1
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1515	2436	1148	212	43	17	10	3	1	0	
MEAN HS(M) = 0.5	LARGEST HS(M)=		3.2	MEAN TP(SEC)=		3.1	NO. OF CASES=		5045.		

MEAN HS(M) = 0.5 LARGEST HS(M)= 3.2 MEAN TP(SEC)= 3.1 NO. OF CASES= 5045.

STATION H25 45.78N 84.10W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	1068	768	40	34	6	.	.	.	.	.	1916
0.50-0.99	.	1328	563	16	12	1	.	.	.	.	1920
1.00-1.49	.	.	426	8	1	2	2	.	.	.	439
1.50-1.99	.	.	16	100	.	.	.	.	.	.	116
2.00-2.49	.	.	.	14	4	.	.	.	.	.	18
2.50-2.99	6	.	.	.	.	.	6
3.00-3.49	1	.	.	.	.	.	1
3.50-3.99	1	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1068	2096	1045	172	30	4	2	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.6 MEAN TP(SEC)= 3.1 NO. OF CASES= 4138.

STATION H25 45.78N 84.10W AZIMUTH(DEGREES) -225.
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1135	739	53	41	7						1975
0.50-0.99	.	1478	610	12	11	2	1	.	.	.	2114
1.00-1.49	.	.	407		2			.	.	.	409
1.50-1.99	.	.	12	121			1	.	.	.	134
2.00-2.49	.	.		18				.	.	.	22
2.50-2.99	.	.	.		2			.	.	.	2
3.00-3.49	1	1
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1135	2217	1082	192	26	2	2	0	0	1	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.0 MEAN TP(SEC)= 3.1 NO. OF CASES= 4362.

STATION H25 45.78N 84.10W AZIMUTH(DEGREES) =247.
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	1037	734	41	26	3	1	.	.	.	.	1842
0.50-0.99	.	1678	413	6	13	1	.	.	.	.	2111
1.00-1.49	.	.	291	2	2	2	.	.	.	.	295
1.50-1.99	.	.	29	34	.	.	.	1	.	.	64
2.00-2.49	.	.	.	10	2	.	.	.	.	.	12
2.50-2.99	1	.	.	.	.	.	1
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1037	2412	774	76	21	4	0	1	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M) = 2.6 MEAN TP(SEC) = 3.0 NO. OF CASES = 4052.

STATION H25 45.78N 84.10W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1285	911	63	36	4	.	.	.	.	.	2299
0.50-0.99	.	1733	385	8	27	4	.	.	.	.	2157
1.00-1.49	.	.	450	.	2	.	.	.	.	.	452
1.50-1.99	.	.	77	58	.	.	.	.	.	.	135
2.00-2.49	.	.	.	18	.	.	.	.	.	.	18
2.50-2.99	1	.	.	.	.	.	1
3.00-3.49	1	.	.	.	.	.	1
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1285	2644	975	120	35	4	0	0	0	0	
MEAN HS (M) = 0.6	LARGEST HS (M) = 3.0		MEAN TP (SEC) = 3.0		NO. OF CASES = 4739.						

STATION H25 45.78N 84.10W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1283	1500	72	39	10	2	.	.	.	.	2906
0.50-0.99	.	2833	1036	6	17	3	.	.	.	.	3895
1.00-1.49	.	.	1406	1	1	1	.	.	.	.	1409
1.50-1.99	.	.	129	574	.	.	1	.	.	.	704
2.00-2.49	.	.	.	140	19	.	.	.	.	.	159
2.50-2.99	.	.	.	1	20	.	.	.	.	.	21
3.00-3.49	4	.	.	.	.	.	4
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1283	4433	2643	761	71	6	1	0	0	0	
MEAN HS (M) = 0.7	LARGEST HS (M) = 3.0		MEAN TP (SEC) = 3.3		NO. OF CASES = 8607.						

STATION H25 45.78N 84.10W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	1116	1309	77	53	10	.	.	.	.	.	2565
0.50-0.99	.	3334	2122	21	23	5	.	.	.	.	5505
1.00-1.49	.	.	2441	.	1	1	.	.	.	.	2443
1.50-1.99	.	.	9	1307	.	.	.	1	.	.	1317
2.00-2.49	.	.	.	145	25	.	.	.	.	.	170
2.50-2.99	40	.	.	.	.	.	40
3.00-3.49	5	.	.	.	.	.	5
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1116	4643	4649	1526	104	6	0	1	0	0	0
MEAN HS(M) = 0.8	LARGEST HS(M) = 3.3		MEAN TP(SEC) = 3.6		NO. OF CASES = 11271.						

STATION H25 45.78N 84.10W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

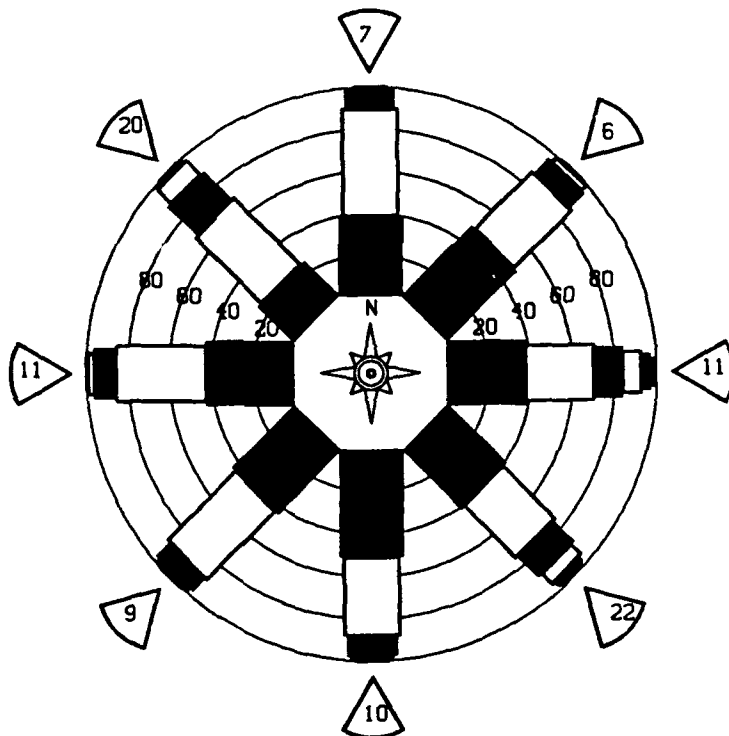
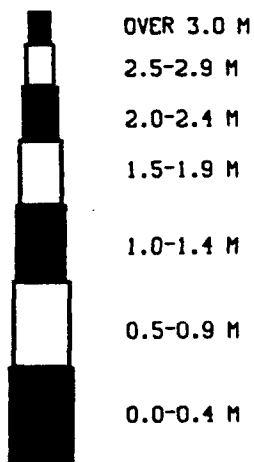
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	679	802	55	52	12	.	.	.	.	.	1600
0.50-0.99	.	2033	724	13	43	10	.	.	.	.	2823
1.00-1.49	.	.	893	.	4	2	.	.	.	.	901
1.50-1.99	.	.	28	300	.	.	2	.	.	.	328
2.00-2.49	.	.	.	26	5	.	.	.	.	.	31
2.50-2.99	1	.	.	.	.	.	1
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	679	2835	1700	391	65	12	2	0	0	0	0
MEAN HS(M) = 0.7 LARGEST HS(M)= 2.5 MEAN TP(SEC)= 3.4 NO. OF CASES= 5322.											

STATION H25 45.78N 84.10W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1875	1440	213	159	82	28	5	.	.	.	3802
0.50-0.99	.	2447	1387	106	92	29	10	.	.	.	4071
1.00-1.49	.	.	987	226	38	23	8	1	.	.	1283
1.50-1.99	.	.	39	477	55	7	6	.	.	.	585
2.00-2.49	.	.	.	45	90	13	5	.	.	.	153
2.50-2.99	30	17	6	.	.	.	52
3.00-3.49	2	8	8	.	.	.	18
3.50-3.99	2	4	.	.	.	6
4.00-4.49	1	.	.	.	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1875	3887	2626	1013	389	127	53	2	0	0	

MEAN HS(M)= 0.7 LARGEST HS(M)= 5.7 MEAN TP(SEC)= 3.5 TOTAL CASES= 93504.

STATION 25
45.78N, 84.10 W
93504 CASES



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H25 (45.78N 84.10W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.6	0.7	0.8	1.0	0.8	0.6	0.6	0.5	0.6	0.9	0.9	0.8	0.7
1957	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1958	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1959	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1968	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1969	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1970	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1971	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1972	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1973	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1974	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1975	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1976	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1977	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1978	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1979	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1981	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1982	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1983	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1984	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1985	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1986	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1987	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.7	0.7	0.8	0.8	0.7	0.6	0.5	0.5	0.6	0.7	0.8	0.7	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H25 (45.78N 84.10W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	2.1	2.2	3.3	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1957	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1958	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1959	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1960	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1961	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1962	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1963	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1964	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1965	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1966	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1967	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1968	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1969	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1970	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1971	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1972	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1973	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1974	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1975	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1976	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1977	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1978	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1979	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1980	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1981	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1982	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1983	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1984	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1985	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1986	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	
1987	2.1	2.2	3.0	2.2	2.4	1.9	1.8	1.7	1.5	2.6	2.4	2.8	

32 YR. STATISTICS FOR WIS STATION H25

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.7
MEAN PEAK WAVE PERIOD	(SECONDS)	3.5
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	135.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.5
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.2
LARGEST WAVE HS	(METERS)	5.7
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	8.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	98.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		65031800

STATION H26 45.78N 83.90W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	703	896	78	60	8						1745
0.50-0.99		1421	346	21	42						1837
1.00-1.49			264	2	4	6	1				275
1.50-1.99			14	14		1	1				29
2.00-2.49				3							3
2.50-2.99											0
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	703	2317	702	100	54	11	2	0	0	0	
MEAN HS (M) = 0.5	LARGEST HS (M) = 2.3		MEAN TP (SEC) = 3.1		NO. OF CASES = 3644.						

STATION H26 45.78N 83.90W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	648	535	58	45	8		1	.	.	.	1295
0.50-0.99	.	842	311	23	44	8		.	.	.	1228
1.00-1.49	.	.	208	2	3		5	.	.	.	226
1.50-1.99	.	.	16	39			1	1	.	.	57
2.00-2.49	.	.	.	2	2		1	.	.	.	5
2.50-2.99	0
3.00-3.49	1	.	.	.	1
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	648	1377	593	111	57	16	9	1	0	0	
MEAN HS (M) = 0.5	LARGEST HS (M) = 3.2		MEAN TP (SEC) = 3.2		NO. OF CASES = 2638.						

STATION H26 45.78N 83.90W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	870	533	82	64	7						1556
0.50-0.99	.	768	465	21	48	7	1	.	.	.	1310
1.00-1.49	.	.	355	16	6		4	.	.	.	400
1.50-1.99	.	.	22	88	1	19	5	.	.	.	116
2.00-2.49	.	.	.	10	3	.	.	.	.	.	13
2.50-2.99	1	.	.	.	.	.	1
3.00-3.49	1	.	1
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	870	1301	924	199	66	26	10	0	1	0	
MEAN HS (M) = 0.6	LARGEST HS (M) = 3.0		MEAN TP (SEC) = 3.2		NO. OF CASES = 3184.						

STATION H26 45.78N 83.90W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	775	426	112	81	10	1	.	.	.	.	1405
0.50-0.99	.	676	505	25	42	6	.	.	.	.	1254
1.00-1.49	.	.	303	104	10	16	3	.	.	.	436
1.50-1.99	.	.	.	191	11	3	11	.	.	.	233
2.00-2.49	.	.	17	11	40	.	5	1	.	.	57
2.50-2.99	.	.	.	2	13	.	1	.	.	.	16
3.00-3.49	3	.	.	.	.	.	6
3.50-3.99	2	.	.	.	.	2
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	775	1102	937	414	129	31	20	1	0	0	0
MEAN HS(M) = 0.7	LARGEST HS(M)=		3.6	MEAN TP(SEC)=		3.5	NO. OF CASES=		3201.		

STATION H26 45.78N 83.90W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	944	579	147	75	9	3	.	.	.	.	1754
0.50-0.99	.	604	836	73	63	3	.	.	.	.	1579
1.00-1.49	.	.	398	229	37	38	6	.	.	.	708
1.50-1.99	.	.	.	331	11	19	10	.	.	.	371
2.00-2.49	.	.	.	24	125	6	12	1	.	.	168
2.50-2.99	36	4	9	6	.	.	51
3.00-3.49	8	2	1	5	.	.	18
3.50-3.99	1	.	.	3
4.00-4.49	1	.	1
4.50-4.99	1	.	1	.	2
5.00-5.49	1	.	1
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	944	1183	1381	732	289	72	39	13	3	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 5.1 MEAN TP(SEC)= 3.7 NO. OF CASES= 4368.

STATION H26 45.78N 83.90W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1084	862	163	83	12	1	.	.	.	.	2005
0.50-0.99	.	823	1174	150	91	2	.	.	.	.	2240
1.00-1.49	.	.	484	257	108	48	.	.	.	.	1197
1.50-1.99	.	.	1	530	212	28	9	.	.	.	780
2.00-2.49	.	.	.	28	266	53	24	1	.	.	372
2.50-2.99	65	82	43	3	1	.	194
3.00-3.49	11	40	23	4	.	.	78
3.50-3.99	1	14	31	2	1	.	49
4.00-4.49	1	16	3	5	.	28
4.50-4.99	3	2	.	5
5.00-5.49	1	.	.	1
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1084	1485	1822	1348	766	269	146	20	9	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.0 MEAN TP(SEC)= 4.1 NO. OF CASES= 6514.

STATION H26 45.78N 83.90W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1475	1288	935	648	220	29	6	.	.	.	4601
0.50-0.99	.	1049	2025	626	417	145	34	.	.	.	4296
1.00-1.49	.	1	465	753	249	117	34	7	.	.	1626
1.50-1.99	.	.	1	435	313	45	33	4	1	.	832
2.00-2.49	.	.	.	6	186	82	27	5	.	.	306
2.50-2.99	21	95	47	6	.	.	169
3.00-3.49	28	19	4	.	1	52
3.50-3.99	1	43	7	.	.	51
4.00-4.49	9	4	1	1	15
4.50-4.99	1	3	.	.	4
5.00-5.49	2	1	.	3
5.50-5.99	1	.	.	1
6.00-6.49	1	.	0
6.50-6.99	0
7.00+	0
TOTAL	1475	2338	3426	2468	1406	542	253	43	4	2	

MEAN HS(M) = 0.8 LARGEST HS(M)= 6.0 MEAN TP(SEC)= 4.2 NO. OF CASES= 11198.

STATION H26 45.78N 83.90W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1687	1949	585	727	666	283	45	1	.	.	5943
0.50-0.99	.	1607	1190	178	209	188	102	2	.	.	3476
1.00-1.49	.	.	592	229	25	49	28	4	1	.	928
1.50-1.99	.	.	12	173	33	16	28	4	2	.	268
2.00-2.49	.	.	.	4	25	5	9	3	.	.	46
2.50-2.99	.	.	.	1	2	4	1	2	3	1	16
3.00-3.49	8
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1687	3556	2379	1312	960	550	217	16	7	1	

MEAN HS(M) = 0.5 LARGEST HS(M)= 3.3 MEAN TP(SEC)= 3.9 NO. OF CASES= 10006.

STATION H26 45.78N 83.90W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1480	1118	63	26	23	18	3	.	.	.	2731
0.50-0.99	.	1060	636	24	26	14	18	.	.	.	1779
1.00-1.49	.	.	457	47	5	4	5	.	.	.	522
1.50-1.99	.	.	2	128	.	.	4	.	.	.	137
2.00-2.49	.	.	.	22	.	.	2	1	.	.	25
2.50-2.99	4	.	.	.	.	.	4
3.00-3.49	1	.	.	.	.	.	1
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1480	2178	1158	247	59	36	31	9	1	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 3.0 MEAN TP(SEC)= 3.1 NO. OF CASES= 4871.

STATION H26 45.78N 83.90W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	977	843	41	18	1	.	.	.	.	.	1880
0.50-0.99	.	697	771	13	8	1	1	.	.	.	1491
1.00-1.49	.	.	525	182	2	.	.	.	1	.	720
1.50-1.99	.	.	1	192	.	.	1	.	.	.	194
2.00-2.49	.	.	.	11	44	.	.	.	.	.	55
2.50-2.99	12	.	.	.	.	.	12
3.00-3.49	3	.	.	.	.	3
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	977	1540	1338	426	67	7	2	0	1	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.7 MEAN TP(SEC)= 3.3 NO. OF CASES= 4083.

STATION H26 45.78N 83.90W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	1102	976	45	27	2	.	.	.	.	.	2152
0.50-0.99	.	674	937	7	7	1	.	.	.	.	1626
1.00-1.49	.	.	643	252	1	6	.	.	.	.	902
1.50-1.99	.	.	2	314	.	.	2	.	1	.	319
2.00-2.49	.	.	.	8	78	.	.	.	.	.	86
2.50-2.99	26	.	.	.	.	.	26
3.00-3.49	1	7	.	.	.	.	8
3.50-3.99	1	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1102	1650	1627	608	115	16	2	0	1	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 4.1 MEAN TP(SEC)= 3.4 NO. OF CASES= 4798.

STATION H26 45.78N 83.90W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	961	925	38	26	3	1	.	.	.	.	1954
0.50-0.99	.	1011	895	9	6	.	.	.	.	.	1921
1.00-1.49	.	.	870	218	2	1	.	.	.	.	1081
1.50-1.99	.	.	1	304	.	.	.	.	.	.	305
2.00-2.49	.	.	.	20	36	.	.	.	.	.	56
2.50-2.99	11	.	.	.	.	.	11
3.00-3.49	1	4	.	.	.	.	5
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	961	1936	1804	577	59	6	0	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.3 MEAN TP(SEC)= 3.4 NO. OF CASES= 5003.

STATION H26 45.78N 83.90W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-11.9	
0.00-0.49	1114	1208	44	24	3	1	.	.	.	.	2394
0.50-0.99	.	1245	764	2	18	1	.	.	.	.	2030
1.00-1.49	.	.	953	190	1	.	.	.	.	.	1144
1.50-1.99	.	.	3	489	.	.	.	.	.	.	492
2.00-2.49	.	.	.	48	55	.	.	.	.	.	103
2.50-2.99	34	.	.	.	.	.	34
3.00-3.49	1	.	.	.	.	.	1
3.50-3.99	2
4.00-4.49	2	.	.	.	.	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1114	2453	1764	753	112	4	0	0	0	0	5805

STATION H26 45.78N 83.90W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	976	1755	49	27	4						2811
0.50-0.99		2881	1982	9	9						4883
1.00-1.49			2073	275	1	2					4883
1.50-1.99			48	1270	1	1					2350
2.00-2.49				177	172						1318
2.50-2.99				2	93						349
3.00-3.49					9						95
3.50-3.99						2					14
4.00-4.49						1					2
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	976	4636	4152	1760	288	11	0	0	0	0	0
MEAN HS (M) = 0.9	LARGEST HS (M) = 4.2		MEAN TP (SEC) = 3.6		NO. OF CASES = 11063.						

STATION H28 45.78N 83.90W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	778	1080	65	44	10						1977
0.50-0.99		2526	1649	20	20	4					4219
1.00-1.49			1691	8	3	1	1				1704
1.50-1.99			7	810			1				818
2.00-2.49				80	8						88
2.50-2.99					18						18
3.00-3.49					1						1
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	778	3606	3412	962	60	5	2	0	0	0	
MEAN HS(M) = 0.8	LARGEST HS(M)=		3.0	MEAN TP(SEC)=		3.5	NO. OF CASES=		8259.		

STATION H26 45.78N 83.90W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

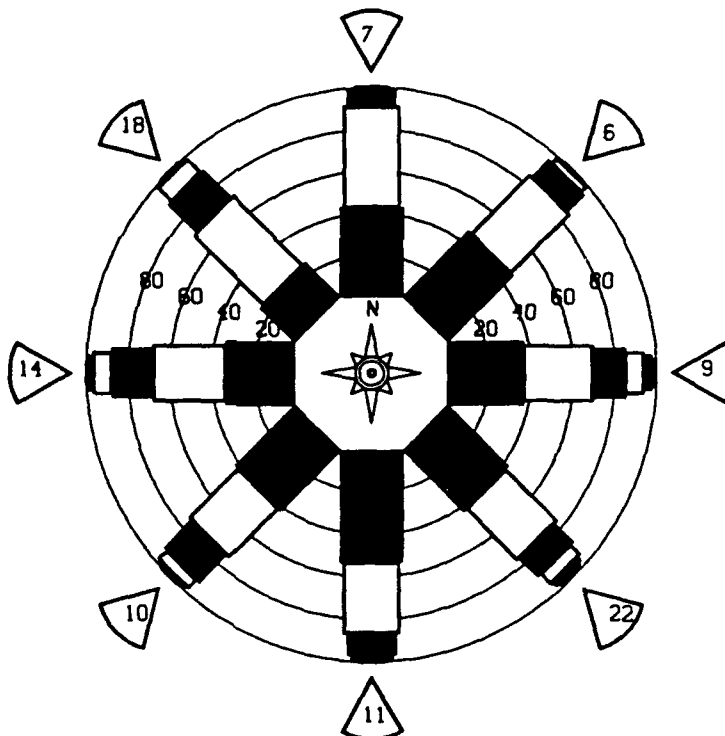
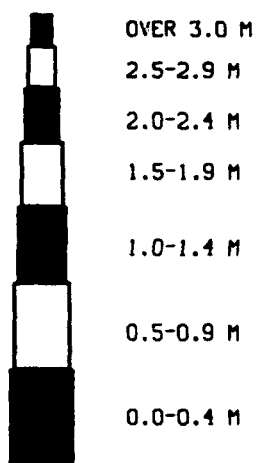
HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	640	850	52	53	11						1606
0.50-0.99		1865	767	14	41	4					2691
1.00-1.49			678				1				681
1.50-1.99			26	183		2					209
2.00-2.49				9	3						12
2.50-2.99											0
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	640	2715	1523	259	55	6	1	0	0	0	
MEAN HS (M) = 0.7	LARGEST HS (M) = 2.4		MEAN TP (SEC) = 3.3		NO. OF CASES = 4869.						

STATION H26 45.78N 83.90W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1622	1563	256	203	100	33	5	.	.	.	3782
0.50-0.99	.	1975	1526	122	109	39	15	.	.	.	3786
1.00-1.49	.	.	1096	308	46	31	9	1	.	.	1491
1.50-1.99	.	.	17	550	58	11	10	1	.	.	647
2.00-2.49	.	.	.	47	104	12	8	1	.	.	174
2.50-2.99	34	16	10	1	.	.	63
3.00-3.49	3	10	4	1	.	.	18
3.50-3.99	2	7	1	.	.	10
4.00-4.49	2	1	.	.	3
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1622	3538	2895	1230	454	158	70	7	0	0	

MEAN HS(M)= 0.7 LARGEST HS(M)= 6.0 MEAN TP(SEC)= 3.6 TOTAL CASES= 93504.

STATION 26
45.78N, 83.90 W
93504 CASES



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H26 (45.78N 83.90W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	0.6	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1957	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1958	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1959	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1960	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1961	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1962	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1963	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1964	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1965	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1966	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1967	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1968	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1969	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1970	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1971	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1972	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1973	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1974	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1975	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1976	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1977	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1978	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1979	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1980	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1981	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1982	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1983	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1984	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1985	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1986	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
1987	0.8	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.9	0.8
MEAN	0.8	0.7	0.8	0.9	0.7	0.6	0.5	0.5	0.6	0.7	0.8	0.8	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H26 (45.78N 83.90W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1957	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1958	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1959	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1960	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1961	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1962	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1963	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1964	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1965	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1966	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1967	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1968	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1969	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1970	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1971	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1972	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1973	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1974	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1975	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1976	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1977	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1978	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1979	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1980	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1981	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1982	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1983	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1984	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1985	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1986	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	
1987	1.1	1.3	1.3	2.2	2.8	2.2	1.1	1.6	1.1	4.1	3.3	2.3	

32 YR. STATISTICS FOR WIS STATION H26

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	0.7
MEAN PEAK WAVE PERIOD (SECONDS)	3.6
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	135.0
STANDARD DEVIATION OF WAVE HS (METERS)	0.5
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.2
LARGEST WAVE HS (METERS)	6.0
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	10.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	137.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	65112706

MEAN HS(M) = 0.5 LARGEST HS(M) = 2.5 MEAN TP(SEC) = 3.1 NO. OF CASES = 3709.

MEAN BS(M) = 0.5 LARGEST BS(M) = 2.4 MEAN TP(SEC) = 3.2 NO. OF CASES = 2658.

MEAN HS(M) = 0.6 LARGEST HS(M) = 3.0 MEAN TP(SEC) = 3.3 NO. OF CASES = 3178.

MEAN HS(M) = 0.7 LARGEST HS(M) = 3.9 MEAN TP(SEC) = 3.5 NO. OF CASES = 3084.

STATION H27 45.78N 83.72W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	794	501	143	58	4	.	.	.	.	.	1500
0.50-0.99	.	838	417	98	105	7	.	.	.	.	1465
1.00-1.49	.	.	529	59	33	48	2	.	.	.	671
1.50-1.99	.	.	19	238	4	50	25	.	.	.	336
2.00-2.49	.	.	.	39	14	6	27	2	.	.	88
2.50-2.99	10	1	14	7	.	.	32
3.00-3.49	3	.	2	3	.	.	6
3.50-3.99	2	.	.	3
4.00-4.49	1	.	.	1	.	2
4.50-4.99	1	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	794	1339	1108	492	173	113	70	14	3	0	
MEAN HS (M) = 0.7	LARGEST HS (M) = 4.6		MEAN TP (SEC) = 3.7		NO. OF CASES = 3853.						

STATION H27 45.78N 83.72W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	786	426	112	66	4						1394
0.50-0.99		762	710	132	94	3					1701
1.00-1.49			445	247	87	31	1				811
1.50-1.99			17	303	130	55	14				519
2.00-2.49				38	109	43	41				233
2.50-2.99				2	21	47	42	2			113
3.00-3.49					2	23	28	3	1		57
3.50-3.99						1	14	6	1		24
4.00-4.49							3	1	3		7
4.50-4.99								3			3
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	786	1188	1284	788	447	203	143	18	5	0	
MEAN HS(M) = 0.9	LARGEST HS(M)=		4.6	MEAN TP(SEC)=		4.1	NO. OF CASES=		4561.		

STATION B27 45.78N 83.72W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1067	849	721	539	108	5					3369
0.50-0.99	.	854	1637	622	355	65	7	.	.	.	3540
1.00-1.49	.	.	311	589	243	102	18	1	.	.	1264
1.50-1.99	.	.	1	345	320	45	17	2	.	.	730
2.00-2.49	.	.	.	1	174	81	37	.	.	.	293
2.50-2.99	22	91	56	.	.	.	169
3.00-3.49	27	20	4	.	.	51
3.50-3.99	1	42	5	.	.	48
4.00-4.49	11	6	1	.	18
4.50-4.99	2	6	1	.	9
5.00-5.49	3	.	.	3
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1067	1803	2670	2096	1222	417	210	27	2	0	
MEAN HS (M) = 0.8	LARGEST HS (M) = 5.3		MEAN TP (SEC) = 4.3		NO. OF CASES = 8912.						

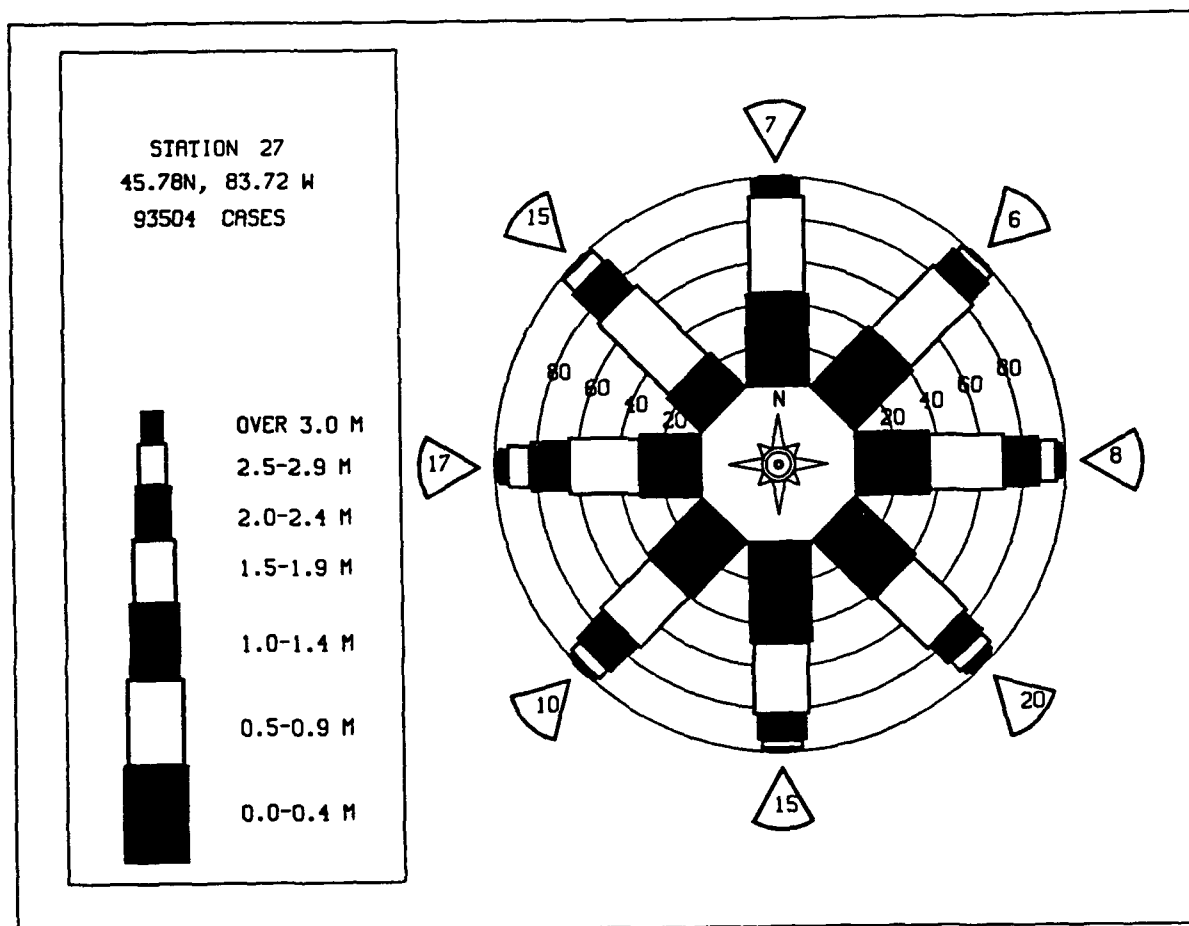
STATION H27 45.78N 83.72W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1461	2692	911	1091	760	226	26				7167
0.50-0.99	.	1392	2061	393	466	336	118	2	.	.	4768
1.00-1.49	.	2	543	491	108	127	73	6	.	.	1350
1.50-1.99	.	.	4	322	70	37	42	9	.	.	484
2.00-2.49	.	.	.	23	72	20	25	7	3	.	150
2.50-2.99	14	11	6	3	.	.	34
3.00-3.49	1	8	7	6	3	1	26
3.50-3.99	6	3	2	.	11
4.00-4.49	1	.	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1461	4086	3519	2320	1491	765	303	36	9	1	
MEAN HS (M) = 0.6	LARGEST HS (M) = 4.7		MEAN TP (SEC) = 4.1		NO. OF CASES = 13104.						

STATION H27 45.78N 83.72W		AZIMUTH(DEGREES) =247.5									
PERCENT OCCURRENCE(X1000) OF HEIGHT		AND PERIOD BY DIRECTION									
HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	899	1081	28	13							2021
0.50-0.99		671	1294	16	4						1985
1.00-1.49			630	559	1						1190
1.50-1.99				482	28						510
2.00-2.49				5	186						191
2.50-2.99					44	2					46
3.00-3.49					2	12					14
3.50-3.99						1					1
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	899	1752	1952	1075	265	15	0	0	0	0	
MEAN HS(M) = 0.8	LARGEST HS(M) = 3.6		MEAN TP(SEC) = 3.7		NO. OF CASES = 5579.						

STATION H27 45.78N 83.72W		AZIMUTH(DEGREES) =337.5									
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	605	869	64	40	10						1588
0.50-0.99		1751	747	9	20	3					2530
1.00-1.49			642	1							643
1.50-1.99			19	154		1					174
2.00-2.49				12	2						14
2.50-2.99											0
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	605	2620	1472	216	32	4	0	0	0	0	
MEAN HS(M) = 0.7	LARGEST HS(M)= 2.4		MEAN TP(SEC)= 3.3		NO. OF CASES= 4634.						

STATION H27 45.78N 83.72W FOR ALL DIRECTIONS										
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	1387	1710	249	219	97	25	2	.	.	3689
0.50-0.99	.	1837	1651	140	128	51	17	.	.	3824
1.00-1.49	.	.	996	377	50	36	13	1	.	1473
1.50-1.99	.	.	23	552	68	20	13	1	.	677
2.00-2.49	.	.	.	41	134	15	14	1	.	205
2.50-2.99	42	16	12	1	.	71
3.00-3.49	2	14	5	.	.	22
3.50-3.99	1	6	1	.	8
4.00-4.49	1	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1387	3547	2919	1329	521	178	83	6	0	93504
MEAN HS(M)= 0.7 LARGEST HS(M)= 5.3 MEAN TP(SEC)= 3.7 TOTAL CASES= 93504.										



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H27 (45.78N 83.72W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.6	0.8	0.8	1.0	0.9	0.6	0.6	0.5	0.6	0.9	0.9	0.8	0.8
1957	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1958	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1959	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1968	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1969	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1970	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1971	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1972	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1973	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1974	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1975	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1976	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1977	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1978	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1979	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1981	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1982	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1983	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1984	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1985	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1986	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1987	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.8	0.7	0.8	0.8	0.7	0.6	0.6	0.6	0.6	0.8	0.8	0.8	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H27 (45.78N 83.72W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	1.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1957	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1958	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1959	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1960	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1961	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1962	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1963	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1964	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1965	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1966	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1967	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1968	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1969	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1970	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1971	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1972	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1973	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1974	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1975	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1976	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1977	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1978	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1979	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1980	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1981	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1982	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1983	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1984	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1985	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1986	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
1987	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	

32 YR. STATISTICS FOR WIS STATION H27

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.7
MEAN PEAK WAVE PERIOD	(SECONDS)	3.7
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	157.5
STANDARD DEVIATION OF WAVE HS	(METERS)	0.5
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.2
LARGEST WAVE HS	(METERS)	5.3
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	9.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	142.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		65112706

STATION H28 45.78N 83.52W AZIMUTH(DEGREES) = 0.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-11.9	LONGER
0.00-0.49	811	879	44	42	17						1793
0.50-0.99		1461	355	3	11	2	1				1833
1.00-1.49			320	2		1					323
1.50-1.99			28	17	1						46
2.00-2.49				2							2
2.50-2.99					1						1
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+	811	2340	747	66	30	3	1	0	0	0	0
TOTAL	811	2340	747	66	30	3	1	0	0	0	0

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.7 MEAN TP(SEC)= 3.0 NO. OF CASES= 3745.

STATION H28 45.78N 83.52W AZIMUTH(DEGREES) = 22.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-11.9	LONGER
0.00-0.49	715	580	42	44	18						1399
0.50-0.99		1043	359	2	18	6					1428
1.00-1.49			289	1		1	3	1			295
1.50-1.99			21	65	1						87
2.00-2.49				11	2	1	2				16
2.50-2.99					1						1
3.00-3.49								1			1
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+	715	1623	711	123	40	8	5	2	0	0	0
TOTAL	715	1623	711	123	40	8	5	2	0	0	0

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.1 MEAN TP(SEC)= 3.1 NO. OF CASES= 3025.

STATION H28 45.78N 83.52W AZIMUTH(DEGREES) = 45.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-11.9	LONGER
0.00-0.49	779	486	81	66	18						1430
0.50-0.99		841	618	5	26	8					1499
1.00-1.49			499	1	4	6	4				514
1.50-1.99			13	175	1		1				190
2.00-2.49				23	10						33
2.50-2.99					3						3
3.00-3.49					3						3
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+	779	1327	1211	270	65	15	5	0	0	0	0
TOTAL	779	1327	1211	270	65	15	5	0	0	0	0

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.3 MEAN TP(SEC)= 3.3 NO. OF CASES= 3442.

STATION H28 45.78N 83.52W AZIMUTH(DEGREES) = 67.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-11.9	LONGER
0.00-0.49	701	419	81	74	10						1285
0.50-0.99		885	314	24	72	20	1				1316
1.00-1.49			306	7	7	33	10				356
1.50-1.99			45	67		5	10				127
2.00-2.49				23			3				27
2.50-2.99					5			2			7
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+	701	1304	746	188	94	58	24	3	0	0	0
TOTAL	701	1304	746	188	94	58	24	3	0	0	0

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.9 MEAN TP(SEC)= 3.4 NO. OF CASES= 2926.

STATION H28 45.78N 83.52W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	812	516	140	86	9	1	.	.	.	.	1564
0.50-0.99	.	1079	125	110	140	23	.	.	.	.	1477
1.00-1.49	.	.	232	21	80	129	.	.	.	.	481
1.50-1.99	.	.	66	13	.	34	19	1	.	.	155
2.00-2.49	.	.	.	6	.	2	35	8	.	.	51
2.50-2.99	5	2	.	.	7
3.00-3.49	1	.	.	1	1	.	3
3.50-3.99	1	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	812	1595	563	236	230	189	100	12	2	0	
MEAN HS(M) = 0.6	LARGEST HS(M) = 3.6		MEAN TP(SEC) = 3.6		NO. OF CASES = 3505.						

STATION H28 45.76N 83.52W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	630	378	104	57	9						1178
0.50-0.99		682	315	122	80	6					1215
1.00-1.49			148	126	77	57	4				413
1.50-1.99				20	75	68	36				226
2.00-2.49					5	43	17	35			101
2.50-2.99						9	21	22	6		58
3.00-3.49							5	5	4	1	15
3.50-3.99								4	1		6
4.00-4.49								1			2
4.50-4.99									1		1
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00-7.49											0
TOTAL	630	1060	588	385	286	142	97	13	4	0	
MEAN HS(M) = 0.8	LARGEST HS(M) = 4.9		MEAN TP(SEC) = 3.9		NO. OF CASES = 3022.						

STATION H28 45.78N 83.52W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	811	560	548	462	80	3	.	.	.	.	2464
0.50-0.99	.	658	910	327	331	48	2	.	.	.	2276
1.00-1.49	.	.	222	325	133	102	10	.	.	.	792
1.50-1.99	.	.	2	235	227	43	22	.	.	.	529
2.00-2.49	.	.	.	3	116	83	24	1	.	.	227
2.50-2.99	21	59	43	1	.	.	124
3.00-3.49	1	27	28	.	1	.	57
3.50-3.99	3	33	4	.	.	40
4.00-4.49	6	4	.	.	10
4.50-4.99	8	.	.	8
5.00-5.49	1	1	.	2
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00-7.99	0
TOTAL	811	1218	1682	1352	909	368	168	19	2	0	
MEAN HS (M) = 0.8	LARGEST HS (M) = 5.1		MEAN TP (SEC) = 4.3		NO. OF CASES = 6121.						

STATION H28 45.78N 83.52W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	1298	2526	1555	1381	704	163	14				7641
0.50-0.99		1191	2210	598	582	393	99	5			5088
1.00-1.49			659	531	185	134	100	3			1622
1.50-1.99			6	395	168	57	39	7	1		673
2.00-2.49				26	100	34	37	11			208
2.50-2.99					25	48	33	4	1		111
3.00-3.49					1	9	8	2		1	21
3.50-3.99						1	10	5	3		19
4.00-4.49						1	5	2			8
4.50-4.99							1	2	1		4
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	1298	3717	4430	2931	1785	840	346	41	6	1	

MEAN HS(M) = 0.6 LARGEST HS(M) = 4.9 MEAN TP(SEC) = 4.3 NO. OF CASES = 14416.

STATION H28 45.78N 83.52W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	1362	1807	72	66	39	16	1	.	.	.	3363
0.50-0.99	.	1125	1489	33	60	98	29	.	.	.	2834
1.00-1.49	.	.	802	398	24	37	2	1	.	.	1270
1.50-1.99	.	.	5	439	8	5	35	9	2	.	503
2.00-2.49	.	.	.	43	104	.	14	8	1	.	170
2.50-2.99	31	.	6	2	5	.	44
3.00-3.49	4	1	3	3	1	.	12
3.50-3.99	1	1	1	2	.	5
4.00-4.49	1	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1362	2932	2368	979	252	145	127	25	12	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 4.1 MEAN TP(SEC)= 3.6 NO. OF CASES= 7685.

STATION H28 45.78N 83.52W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	903	1131	28	7	.	.	.	.	.	.	2069
0.50-0.99	.	826	1100	11	3	6	7	.	.	.	1953
1.00-1.49	.	.	732	326	.	3	6	2	.	.	1069
1.50-1.99	.	.	1	386	6	.	5	3	.	.	401
2.00-2.49	.	.	.	26	90	.	2	1	2	.	121
2.50-2.99	22	.	2	.	.	.	24
3.00-3.49	9	8	.	1	1	.	19
3.50-3.99	1	4	.	.	.	.	5
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	903	1957	1861	756	131	21	20	9	3	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.9 MEAN TP(SEC)= 3.6 NO. OF CASES= 5305.

STATION H28 45.78N 83.52W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	860	1143	25	7	.	.	.	.	.	.	2035
0.50-0.99	.	648	1050	20	.	2	1	.	.	.	1721
1.00-1.49	.	.	599	386	.	1	3	.	.	.	999
1.50-1.99	.	.	.	330	4	.	1	.	.	.	335
2.00-2.49	.	.	.	20	81	.	.	.	.	.	101
2.50-2.99	26	.	.	.	.	.	26
3.00-3.49	5	17	.	.	.	.	22
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	860	1791	1674	773	116	20	5	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.4 MEAN TP(SEC)= 3.5 NO. OF CASES= 4906.

STATION H28 45.78N 83.52W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	830	1192	35	9	.	.	.	.	.	.	2066
0.50-0.99	.	636	1330	82	.	.	.	.	.	.	2048
1.00-1.49	.	.	428	588	4	.	.	.	.	.	1020
1.50-1.99	.	.	1	547	88	.	.	.	.	.	636
2.00-2.49	.	.	.	7	242	.	.	.	.	.	249
2.50-2.99	70	11	.	.	.	.	81
3.00-3.49	4	25	.	.	.	.	29
3.50-3.99	10	1	.	.	.	11
4.00-4.49	1	.	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	830	1828	1794	1233	408	47	1	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.0 MEAN TP(SEC)= 3.8 NO. OF CASES= 5752.

STATION H28 45.78N 83.52W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	893	2003	48	8	1	.	.	.	.	.	2953
0.50-0.99	.	964	1906	179	2	.	.	.	.	.	3051
1.00-1.49	.	.	535	869	8	.	.	.	.	.	1412
1.50-1.99	.	.	10	844	286	.	.	.	.	.	1140
2.00-2.49	.	.	.	5	468	.	.	.	.	.	473
2.50-2.99	.	.	.	1	163	.	.	.	.	.	217
3.00-3.49	53	.	.	.	.	81
3.50-3.99	81	.	.	.	.	25
4.00-4.49	22	3	.	.	.	5
4.50-4.99	1	.	.	.	1
5.00-5.49	1	.	.	.	1
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	893	2967	2499	1906	928	156	10	0	0	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 5.2 MEAN TP(SEC)= 3.9 NO. OF CASES= 8761.

STATION H28 45.78N 83.52W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	556	2253	50	11	1	.	.	.	.	.	2871
0.50-0.99	.	2729	2299	40	.	.	.	.	.	.	5068
1.00-1.49	.	.	1782	432	1	.	.	.	.	.	2215
1.50-1.99	.	.	78	1052	159	.	.	.	.	.	1289
2.00-2.49	.	.	.	136	331	.	.	.	.	.	467
2.50-2.99	.	.	.	3	141	.	.	.	.	.	177
3.00-3.49	6	33	.	.	.	.	80
3.50-3.99	74	.	.	.	.	20
4.00-4.49	18	2	.	.	.	7
4.50-4.99	1	.	.	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	556	4982	4209	1674	639	125	10	0	0	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.9 MEAN TP(SEC)= 3.8 NO. OF CASES= 11411.

STATION H28 45.78N 83.52W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	573	1753	35	22	2	.	.	.	.	.	1385
0.50-0.99	.	1704	1050	.	.	2	.	.	.	.	2756
1.00-1.49	.	.	961	7	.	.	.	.	.	.	968
1.50-1.99	.	.	16	447	.	.	.	.	.	.	463
2.00-2.49	.	.	.	37	6	.	.	.	.	.	43
2.50-2.99	7	.	.	.	.	.	7
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	573	2457	2062	513	15	2	0	0	0	0	

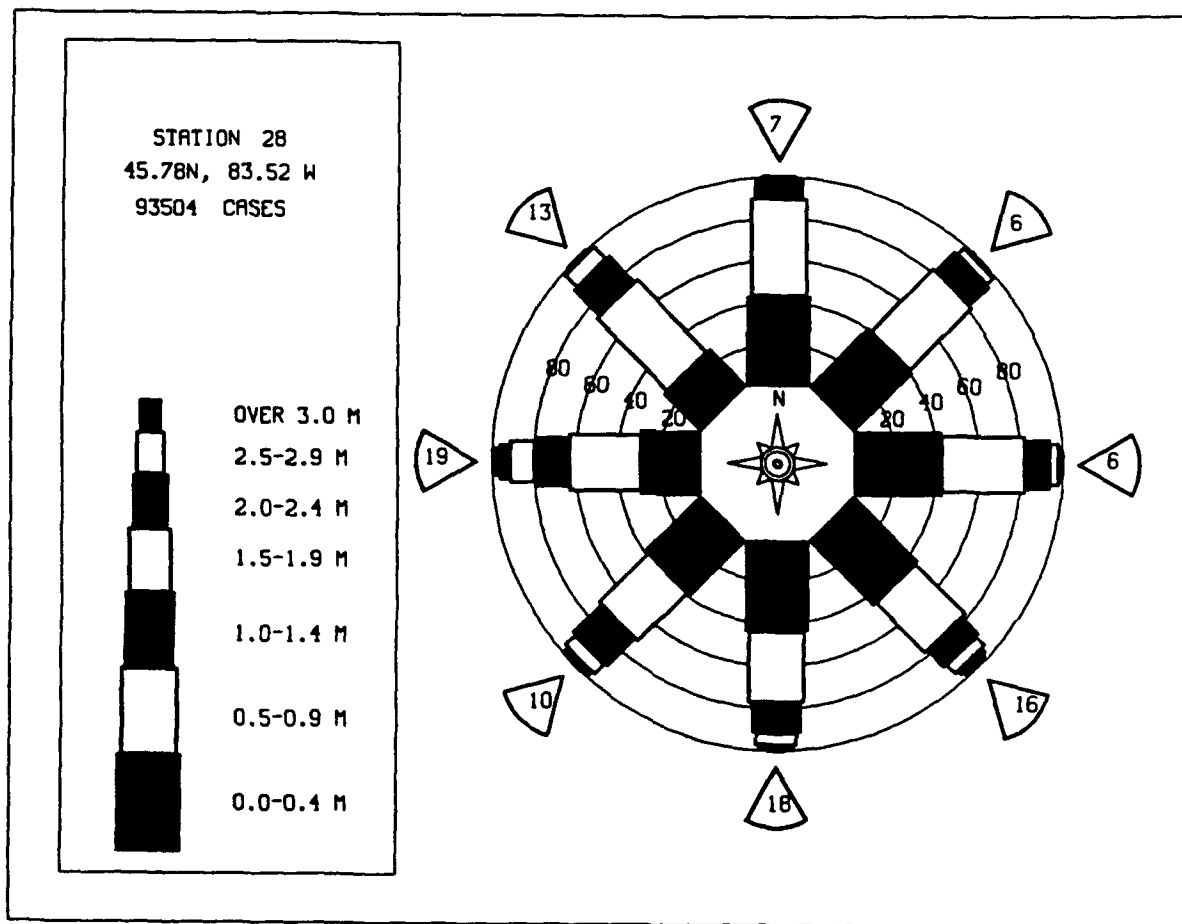
MEAN HS(M) = 0.8 LARGEST HS(M)= 2.8 MEAN TP(SEC)= 3.5 NO. OF CASES= 5262.

STATION H28 45.78N 83.52W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	583	795	31	21	5	.	.	.	.	.	1435
0.50-0.99	.	1599	678	3	.	1	.	.	.	.	2281
1.00-1.49	.	.	603	5	1	.	.	.	.	.	609
1.50-1.99	.	.	23	146	1	.	.	.	.	.	169
2.00-2.49	.	.	.	12	.	.	.	.	.	.	13
2.50-2.99	0
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	583	2394	1335	187	7	1	0	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 2.3 MEAN TP(SEC)= 3.3 NO. OF CASES= 4220.

STATION H28 45.78N 83.52W FOR ALL DIRECTIONS										
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	1312	1742	292	237	91	18	1	.	.	3693
0.50-0.99	.	1807	1611	156	135	62	14	.	.	3785
1.00-1.49	.	.	912	403	51	49	19	.	.	1434
1.50-1.99	.	.	34	524	102	18	18	2	.	698
2.00-2.49	.	.	.	39	160	13	15	3	.	230
2.50-2.99	53	22	11	2	.	88
3.00-3.49	3	25	4	1	.	33
3.50-3.99	6	3	1	.	12
4.00-4.49	2	.	.	2
4.50-4.99	1	.	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1312	3549	2849	1359	595	213	89	10	0	0
MEAN HS(M)= 0.7 LARGEST HS(M)= 5.2 MEAN TP(SEC)= 3.7 TOTAL CASES= 93504.										



MEAN HS(METERS) BY MONTH AND YEAR

WIS STATION H28 (45.78N 83.52W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	0.6	0.8	0.8	0.9	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1957	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1958	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1959	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1960	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1961	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1962	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1963	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1964	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1965	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1966	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1967	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1968	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1969	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1970	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1971	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1972	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1973	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1974	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1975	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1976	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1977	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1978	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1979	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1980	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1981	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1982	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1983	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1984	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1985	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1986	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
1987	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.6	0.9	1.0	0.8	0.8
MEAN	0.8	0.7	0.8	0.8	0.7	0.6	0.6	0.6	0.7	0.8	0.9	0.8	

LARGEST HS(METERS) BY MONTH AND YEAR

WIS STATION H28 (45.78N 83.52W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1957	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1958	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1959	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1960	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1961	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1962	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1963	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1964	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1965	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1966	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1967	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1968	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1969	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1970	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1971	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1972	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1973	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1974	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1975	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1976	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1977	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1978	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1979	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1980	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1981	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1982	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1983	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1984	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1985	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1986	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3
1987	1.7	4.1	3.3	3.3	3.6	3.3	1.7	2.2	2.7	3.7	3.3	3.3	3.3

32 YR. STATISTICS FOR WIS STATION H28

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.7
MEAN PEAK WAVE PERIOD	(SECONDS)	3.7
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	157.5
STANDARD DEVIATION OF WAVE HS	(METERS)	0.6
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.3
LARGEST WAVE HS	(METERS)	5.2
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	8.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	272.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		58110606

STATION H29 45.63N 83.32W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	562	1026	104	36	4						1732
0.50-0.99		1321	509	64	14	1	1				1910
1.00-1.49			399	88	6						496
1.50-1.99			60	28	13	1	1				103
2.00-2.49				6	1						7
2.50-2.99											0
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	562	2347	1072	222	40	3	2	0	0	0	3982.

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.4 MEAN TP(SEC)= 3.3 NO. OF CASES= 3982.

STATION H29 45.63N 83.32W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	475	731	68	28	4						1306
0.50-0.99		1058	420	31	17	1	1				1528
1.00-1.49			331	6	4		1				345
1.50-1.99			22	64	2	1		1			90
2.00-2.49				16	1	1					19
2.50-2.99					2		1				2
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	475	1789	841	145	30	6	3	1	0	0	3083.

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.5 MEAN TP(SEC)= 3.2 NO. OF CASES= 3083.

STATION H29 45.63N 83.32W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	516	583	86	29	2						1216
0.50-0.99		1087	643	37	35	3					1805
1.00-1.49			616	9	26	10	1				662
1.50-1.99			17	233	1	5					260
2.00-2.49				41	13	1	2				48
2.50-2.99				1	4		2				17
3.00-3.49						1					2
3.50-3.99						2		1			3
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	516	1670	1362	350	86	22	9	1	0	0	3766.

MEAN HS(M) = 0.7 LARGEST HS(M)= 4.2 MEAN TP(SEC)= 3.5 NO. OF CASES= 3766.

STATION H29 45.63N 83.32W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	355	432	78	26							891
0.50-0.99		727	425	79	52	1					1284
1.00-1.49			467	44	37	16	2				566
1.50-1.99			38	229	7	28	4				306
2.00-2.49				44	24	3	9				80
2.50-2.99				1	17		5				23
3.00-3.49					1	1	1				3
3.50-3.99						1		1			2
4.00-4.49											0
4.50-4.99								1			1
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	355	1159	1008	423	138	50	21	2	0	0	2961.

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.8 MEAN TP(SEC)= 3.7 NO. OF CASES= 2961.

STATION H29 45.63N 83.32W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	438	414	91	29							972
0.50-0.99		671	368	158	60	1					1258
1.00-1.49			540	52	94	23					709
1.50-1.99			12	249	47	85	6				399
2.00-2.49				52	19	49	28	1			149
2.50-2.99					16	6	29	2			53
3.00-3.49					5		17	6			28
3.50-3.99							2	2			4
4.00-4.49								1			1
4.50-4.99								1	2		3
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	438	1085	1011	540	241	164	82	13	2	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.8 MEAN TP(SEC)= 4.0 NO. OF CASES= 3357.

STATION H29 45.63N 83.32W AZIMUTH(DEGREES) = 112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	375	321	74	23	1						794
0.50-0.99		408	367	160	48						983
1.00-1.49			268	172	124	12					576
1.50-1.99			6	155	120	69	4				354
2.00-2.49				12	75	78	16				181
2.50-2.99				1	14	40	44		1		100
3.00-3.49					1	19	33	2			55
3.50-3.99						1	24	4			29
4.00-4.49							1		1		6
4.50-4.99							1				2
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	375	729	715	523	383	219	123	10	3	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 4.6 MEAN TP(SEC)= 4.3 NO. OF CASES= 2894.

STATION H29 45.63N 83.32W AZIMUTH(DEGREES) = 135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	495	713	510	222	22						1962
0.50-0.99		596	990	673	213	7	1				2480
1.00-1.49			254	371	272	49	1				947
1.50-1.99			2	221	218	72	1				518
2.00-2.49				5	118	81	22				226
2.50-2.99					7	65	50				122
3.00-3.49						25	28				56
3.50-3.99							29				30
4.00-4.49							12				14
4.50-4.99							3				6
5.00-5.49											0
5.50-5.99								2			2
6.00-6.49									1		1
6.50-6.99											0
7.00+											0
TOTAL	495	1309	1756	1492	850	299	151	11	1	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 6.0 MEAN TP(SEC)= 4.4 NO. OF CASES= 5965.

STATION H29 45.63N 83.32W AZIMUTH(DEGREES) = 157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

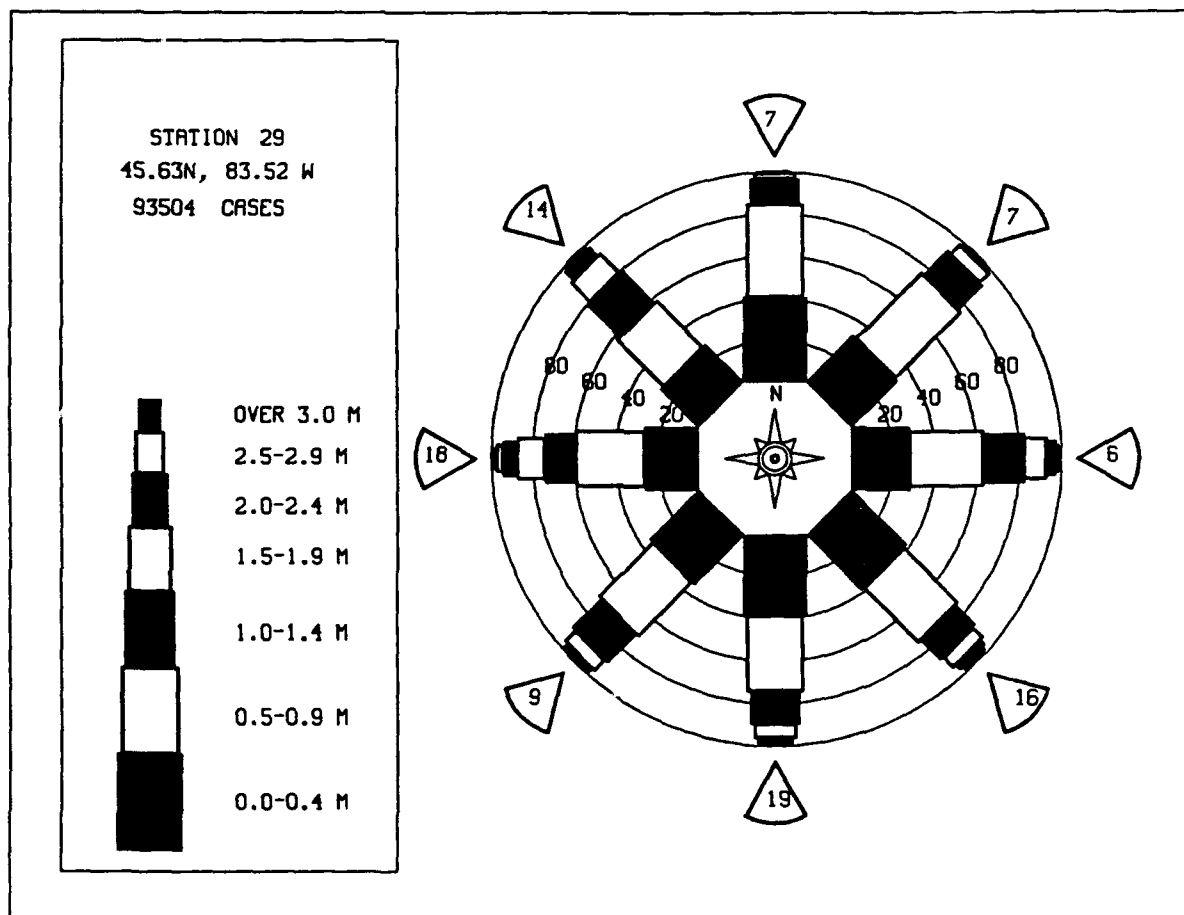
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	888	2739	1563	1327	509	63	5				7094
0.50-0.99		1298	2206	1083	874	427	52				5940
1.00-1.49			656	557	349	224	108	4			1898
1.50-1.99			13	404	198	142	86	2	1		846
2.00-2.49				39	113	98	67	6	1		324
2.50-2.99					23	44	58	7			132
3.00-3.49					3	17	37	6	2		65
3.50-3.99						1	14	6	3	1	25
4.00-4.49							5	1			11
4.50-4.99							3	2	1		6
5.00-5.49								2		1	3
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	888	4037	4438	3410	2069	1016	435	40	9	2	

MEAN HS(M) = 0.7 LARGEST HS(M)= 5.3 MEAN TP(SEC)= 4.4 NO. OF CASES= 15302.

STATION H29 45.63N 83.32W		AZIMUTH(DEGREES) =247.5									
PERCENT OCCURRENCE(X1000) OF HEIGHT		AND PERIOD BY DIRECTION									
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	647	925	36	6							1614
0.50-0.99		628		87	2						1819
1.00-1.49			1102	440	6		1				1870
1.50-1.99			423	426	89			1			1117
2.00-2.49			1	10	181						191
2.50-2.99					56	23					79
3.00-3.49					1	32					33
3.50-3.99						4	1				5
4.00-4.49						1	3				4
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	647	1553	1562	969	335	60	5	1	0	0	
MEAN HS(M) = 0.8	LARGEST HS(M)= 4.3		MEAN TP(SEC)= 3.8		NO. OF CASES= 4808.						

STATION H29 45.63N 83.32W		AZIMUTH(DEGREES) =337.5									
PERCENT OCCURRENCE(X1000) OF HEIGHT		AND PERIOD BY DIRECTION									
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	434	797	72	20							1323
0.50-0.99		767	706	41	5						1518
1.00-1.49			476	270	2						748
1.50-1.99			54	271	13		1				338
2.00-2.49				8	109	1					118
2.50-2.99				1	16						17
3.00-3.49					1	1					2
3.50-3.99						1					1
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	434	1564	1308	611	146	3	1	0	0	0	
MEAN HS(M) = 0.8	LARGEST HS(M)= 3.8		MEAN TP(SEC)= 3.6		NO. OF CASES= 3812.						

STATION H29 45.63N 83.32W FOR ALL DIRECTIONS											
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	908	1728	341	185	58	7	.	.	.	.	3227
0.50-0.99	.	1342	1752	322	147	55	8	.	.	.	3626
1.00-1.49	.	.	890	585	102	42	16	.	.	.	1635
1.50-1.99	.	.	25	645	152	44	16	1	.	.	883
2.00-2.49	.	.	.	40	273	33	19	2	.	.	367
2.50-2.99	74	44	23	1	.	.	142
3.00-3.49	4	41	12	2	.	.	59
3.50-3.99	10	12	2	.	.	24
4.00-4.49	5	1	.	.	6
4.50-4.99	2	.	.	.	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	908	3070	3008	1777	810	276	113	9	0	0	
MEAN HS(M)= 0.8	LARGEST HS(M)= 6.0		MEAN TP(SEC)= 4.0		TOTAL CASES= 93504.						



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H29 (45.63N 83.32W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
YEAR													
1956	0.7	1.0	1.0	1.1	1.0	0.8	0.6	0.6	0.7	1.1	1.1	0.9	0.9
1957	1.0	0.0	0.0	1.1	1.0	0.9	0.7	0.7	0.8	1.1	1.1	1.3	1.0
1958	0.9	1.1	0.6	1.0	1.2	1.2	0.8	0.9	1.2	1.2	1.5	1.0	1.0
1959	1.0	1.1	0.0	1.1	1.1	0.9	0.8	0.8	1.0	1.0	1.0	1.1	1.0
1960	0.9	0.8	0.7	0.9	0.8	0.6	0.6	0.6	0.6	0.7	1.1	0.9	0.8
1961	0.7	0.7	1.2	0.8	0.8	0.7	0.5	0.5	0.8	0.8	0.9	0.8	0.8
1962	0.6	0.7	0.6	0.8	0.8	0.6	0.7	0.6	0.7	0.7	0.7	0.7	0.7
1963	1.0	0.7	0.8	0.8	0.6	0.6	0.6	0.6	0.5	0.5	0.9	0.8	0.7
1964	1.1	0.8	1.1	1.3	1.0	0.7	0.6	0.9	0.8	0.9	1.0	0.8	0.9
1965	1.1	0.1	1.1	0.8	0.8	0.7	0.7	0.6	0.8	1.1	1.0	0.8	0.8
1966	1.0	0.1	1.1	0.9	0.9	0.5	0.6	0.6	0.6	1.1	0.8	0.7	0.8
1967	0.9	0.0	0.0	0.8	0.8	0.9	0.5	0.5	0.6	1.1	1.1	1.0	0.8
1968	0.8	0.0	0.0	0.8	0.8	0.6	0.7	0.6	0.6	0.9	0.9	1.1	0.8
1969	1.0	0.0	0.0	0.7	0.8	0.6	0.5	0.5	0.6	1.0	0.7	0.8	0.8
1970	0.6	0.1	0.8	0.9	0.8	0.6	0.6	0.6	0.6	1.0	0.0	0.8	0.8
1971	1.0	0.1	1.1	1.0	0.9	0.5	0.5	0.5	0.6	1.0	0.7	0.8	0.8
1972	1.1	0.0	0.8	0.9	0.0	0.5	0.5	0.5	0.6	0.8	0.8	0.8	0.8
1973	1.1	0.0	0.0	0.9	0.0	0.5	0.5	0.5	0.6	0.8	0.8	0.8	0.8
1974	0.0	0.9	1.1	0.0	0.8	0.7	0.6	0.7	0.6	0.8	0.8	0.8	0.8
1975	1.1	0.0	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1976	1.1	0.1	1.1	0.3	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1977	1.1	0.0	1.1	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1978	1.1	0.0	0.0	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1979	0.0	0.0	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1980	1.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1981	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1982	1.1	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1983	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1984	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1985	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1986	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1987	1.0	0.8	0.9	1.1	0.9	0.8	0.8	0.9	0.8	0.9	1.0	1.0	0.9
MEAN	0.9	0.9	0.9	0.9	0.8	0.7	0.6	0.6	0.7	0.9	1.0	0.9	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H29 (45.63N 83.32W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
YEAR													
1956	2.5	4.6	4.2	3.3	3.3	3.5	2.3	2.4	3.3	3.9	4.4	4.4	
1957	3.4	2.2	3.9	3.3	3.3	3.5	3.3	3.3	3.3	3.1	4.2	4.4	
1958	3.3	3.3	2.4	4.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1959	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1960	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1961	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1962	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1963	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1964	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1965	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1966	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1967	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1968	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1969	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1970	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1971	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1972	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1973	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1974	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1975	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1976	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1977	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1978	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1979	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1980	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1981	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1982	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1983	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1984	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1985	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1986	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1987	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	

32 YR. STATISTICS FOR WIS STATION H29

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.8
MEAN PEAK WAVE PERIOD	(SECONDS)	4.0
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	157.5
STANDARD DEVIATION OF WAVE HS	(METERS)	0.6
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.3
LARGEST WAVE HS	(METERS)	6.0
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	10.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	134.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		59042821

STATION H30 45.63N 83.12W AZIMUTH(DEGREES) = 0.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	441	712	55	11	3	.	.	.	.	.	1222
0.50-0.99	.	1422	378	29	13	.	.	.	.	.	1832
1.00-1.49	.	.	406	5	13	.	.	.	.	.	424
1.50-1.99	.	.	66	33	1	.	.	.	.	.	113
2.00-2.49	.	.	.	4	1	.	.	.	.	.	5
2.50-2.99	.	.	.	1	.	.	.	.	.	.	1
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	441	2134	905	83	33	1	0	0	0	0	3371.

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.5 MEAN TP(SEC)= 3.2 NO. OF CASES= 3371.

STATION H30 45.63N 83.12W AZIMUTH(DEGREES) = 22.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	585	610	45	20	2	.	.	.	.	.	1262
0.50-0.99	.	1301	428	11	8	.	2	.	.	.	1750
1.00-1.49	.	.	439	1	2	1	.	.	.	.	443
1.50-1.99	.	.	35	124	1	.	1	.	.	.	160
2.00-2.49	.	.	.	18	9	.	.	.	.	.	27
2.50-2.99	.	.	.	1	7	.	1	.	.	.	9
3.00-3.49	1	.	.	.	.	.	1
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	585	1911	947	175	29	1	4	0	0	0	3422.

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.2 MEAN TP(SEC)= 3.2 NO. OF CASES= 3422.

STATION H30 45.63N 83.12W AZIMUTH(DEGREES) = 45.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	560	497	73	35	4	.	.	.	.	.	1169
0.50-0.99	.	1175	744	14	23	2	.	.	.	.	1958
1.00-1.49	.	.	749	5	5	6	.	.	.	.	763
1.50-1.99	.	.	19	329	2	4	3	.	.	.	356
2.00-2.49	.	.	.	56	7	1	2	.	.	.	64
2.50-2.99	17	.	.	.	.	.	17
3.00-3.49	7	.	.	.	.	.	7
3.50-3.99	0
4.00-4.49	1	.	.	.	.	1
4.50-4.99	2	.	.	.	.	2
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	560	1672	1585	434	65	16	5	0	0	0	4064.

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.8 MEAN TP(SEC)= 3.5 NO. OF CASES= 4064.

STATION H30 45.63N 83.12W AZIMUTH(DEGREES) = 67.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	436	433	96	48	1	.	.	.	.	.	1014
0.50-0.99	.	871	293	65	84	3	.	.	.	.	1316
1.00-1.49	.	.	379	1	48	41	3	.	.	.	472
1.50-1.99	.	.	62	120	1	25	8	.	.	.	216
2.00-2.49	.	.	.	25	5	.	10	.	.	.	40
2.50-2.99	.	.	.	1	5	.	1	.	.	.	7
3.00-3.49	1	.	.	1	.	.	2
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	436	1304	830	260	145	69	22	1	0	0	2876.

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.4 MEAN TP(SEC)= 3.6 NO. OF CASES= 2876.

STATION H30 45.63N 83.12W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	458	383	82	44	1	2	.	.	.	.	958
0.50-0.99	.	925	126	179	137	2	.	.	.	.	1369
1.00-1.49	.	.	186	31	192	73	2	.	.	.	484
1.50-1.99	.	.	69	19	16	104	20	1	.	.	223
2.00-2.49	.	.	.	10	.	24	41	.	.	.	76
2.50-2.99	.	.	.	3	.	.	25	1	.	.	31
3.00-3.49	6
3.50-3.99	2	.	4
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	458	1308	463	286	346	203	89	12	2	0	
MEAN HS(M) = 0.8	LARGEST HS(M)= 3.8		MEAN TP(SEC)= 3.9		NO. OF CASES= 2973.						

STATION H30 45.63N 83.12W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	284	217	56	16	3	.	.	.	.	.	576
0.50-0.99	.	382	139	132	34	.	.	.	.	.	687
1.00-1.49	.	.	85	77	114	26	.	.	.	.	312
1.50-1.99	.	.	7	54	55	52	8	.	.	.	176
2.00-2.49	.	.	.	4	36	26	19	.	.	.	85
2.50-2.99	11	12	24	.	.	.	47
3.00-3.49	1	10	17	3	.	.	36
3.50-3.99	4	1	i	.	6
4.00-4.49	1	.	.	1
4.50-4.99	1	.	.	2
5.00-5.49	i	.	.	.	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	284	599	297	283	254	126	73	6	i	0	
MEAN HS(M) = 0.9	LARGEST HS(M) = 4.9		MEAN TP(SEC) = 4.2		NO. OF CASES = 1810.						

STATION H30 45.63N 83.12W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	312	317	280	130	13	.	.	.	.	.	1052
0.50-0.99	.	433	456	328	154	8	.	.	.	.	1380
1.00-1.49	.	.	156	197	177	54	2	.	.	.	586
1.50-1.99	.	.	.	145	157	51	16	.	.	.	373
2.00-2.49	.	.	4	2	91	68	22	.	.	.	183
2.50-2.99	18	32	44	.	.	.	114
3.00-3.49	25	20	.	.	.	45
3.50-3.99	4	26	3	.	.	33
4.00-4.49	8	2	.	.	10
4.50-4.99	1	1	.	.	2
5.00-5.49	0
5.50-5.99	0
6.00-6.49	1	.	1
6.50-6.99	1	1
7.00+	0
TOTAL	312	750	896	802	610	263	139	6	1	1	
MEAN HS(M) = 1.0	LARGEST HS(M)=		6.7	MEAN TP(SEC)=		4.5	NO. OF CASES=		3548.		

STATION H30 45.63N 83.12W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	455	1194	1029	483	100	4	.	.	.	.	325
0.50-0.99	.	906	1358	1035	393	64	4	.	.	.	3760
1.00-1.49	.	1	368	534	340	130	19	1	.	.	1393
1.50-1.99	.	.	1	308	228	78	18	.	.	.	633
2.00-2.49	.	.	.	3	192	65	23	.	.	.	283
2.50-2.99	36	80	20	.	.	.	138
3.00-3.49	40	25	.	.	.	71
3.50-3.99	4	28	.	1	.	35
4.00-4.49	15	.	.	.	19
4.50-4.99	5	.	.	.	6
5.00-5.49	4	.	1	.	7
5.50-5.99	2	.	.	2
6.00-6.49	0
6.50-6.99	1	.	0
7.00+	0
TOTAL	455	2101	2756	2363	1289	465	165	18	3	0	
MEAN HS(M) = 0.8	LARGEST HS(M) = 6.8		MEAN TP(SEC) = 4.4		NO. OF CASES = 9006.						

STATION H30 45 63N 83.12W		AZIMUTH(DEGREES) =247.5									
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION											
HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	412	849	51	3	1	.	.	.	.	.	1316
0.50-0.99	.	586	937	111	6	.	.	.	.	.	1640
1.00-1.49	.	.	378	496	33	.	.	.	.	.	907
1.50-1.99	.	.	.	419	145	.	1	.	.	.	565
2.00-2.49	.	.	4	10	233	3	1	.	.	.	247
2.50-2.99	81	39	.	.	.	.	120
3.00-3.49	3	59	.	.	.	.	62
3.50-3.99	14	2	.	.	.	16
4.00-4.49	1	8	.	.	.	9
4.50-4.99	2	.	.	.	2
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	412	1435	1370	1039	502	116	14	0	0	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 4.9 MEAN TP(SEC)= 4.0 NO. OF CASES= 4580.

STATION H30 45.63N 83.12W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	478	1527	116	3							2124
0.50-0.99	.	710	1884	295	3	.	.	.	.	.	2892
1.00-1.49	.	.	444	970	74	4	2	.	.	.	1494
1.50-1.99	.	.	7	693	533	2	.	.	.	.	1235
2.00-2.49	.	.	.	16	695	26	.	.	.	.	737
2.50-2.99	167	278	.	.	.	.	445
3.00-3.49	3	165	4	.	.	.	172
3.50-3.99	49	47	.	.	.	98
4.00-4.49	1	45	.	.	.	46
4.50-4.99	11	1	.	.	12
5.00-5.49	6	3	.	.	9
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	478	2237	2451	1977	1475	525	115	4	0	0	
MEAN HS(M) = 1.1	LARGEST HS(M)=		5.4	MEAN TP(SEC)=		4.4	NO. OF CASES=		8671.		

STATION H30 45.63N 83.12W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	301	1746	444	16							2507
0.50-0.99	.	1362	2629	379	1	.	.	.	.	.	4371
1.00-1.49	.	.	978	1874	79	1	1	.	.	.	2833
1.50-1.99	.	.	65	1128	582	2	.	.	.	.	1777
2.00-2.49	.	.	.	40	836	31	.	.	.	.	907
2.50-2.99	.	.	.	1	182	190	1	.	.	.	374
3.00-3.49	167	7	.	.	.	174
3.50-3.99	1	28	.	.	.	.	85
4.00-4.49	56	.	.	.	85
4.50-4.99	33	.	.	.	33
5.00-5.49	10	1	.	.	13
5.50-5.99	3	.	.	.	3
6.00-6.49	1	1	.	.	2
6.50-6.99	0
7.00+	0
TOTAL	301	3108	4116	3438	1681	419	112	2	0	0	
MEAN HS(M) = 1.1	LARGEST HS(M) = 5.8		MEAN TP (SEC) = 4.4		NO. OF CASES = 12334.						

STATION H30 45.63N 83.12W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	309	604	175	9							1097
0.50-0.99		952	789	191	4						1936
1.00-1.49			314	507	21						842
1.50-1.99			53	228	178						459
2.00-2.49				27	78	2					107
2.50-2.99				2	10	5					17
3.00-3.49					1	4					5
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	309	1556	1331	964	292	11	0	0	0	0	
MEAN HS(M) = 0.8	LARGEST HS(M)=		3.3	MEAN TP(SEC)=		3.9	NO. OF CASES=		4182.		

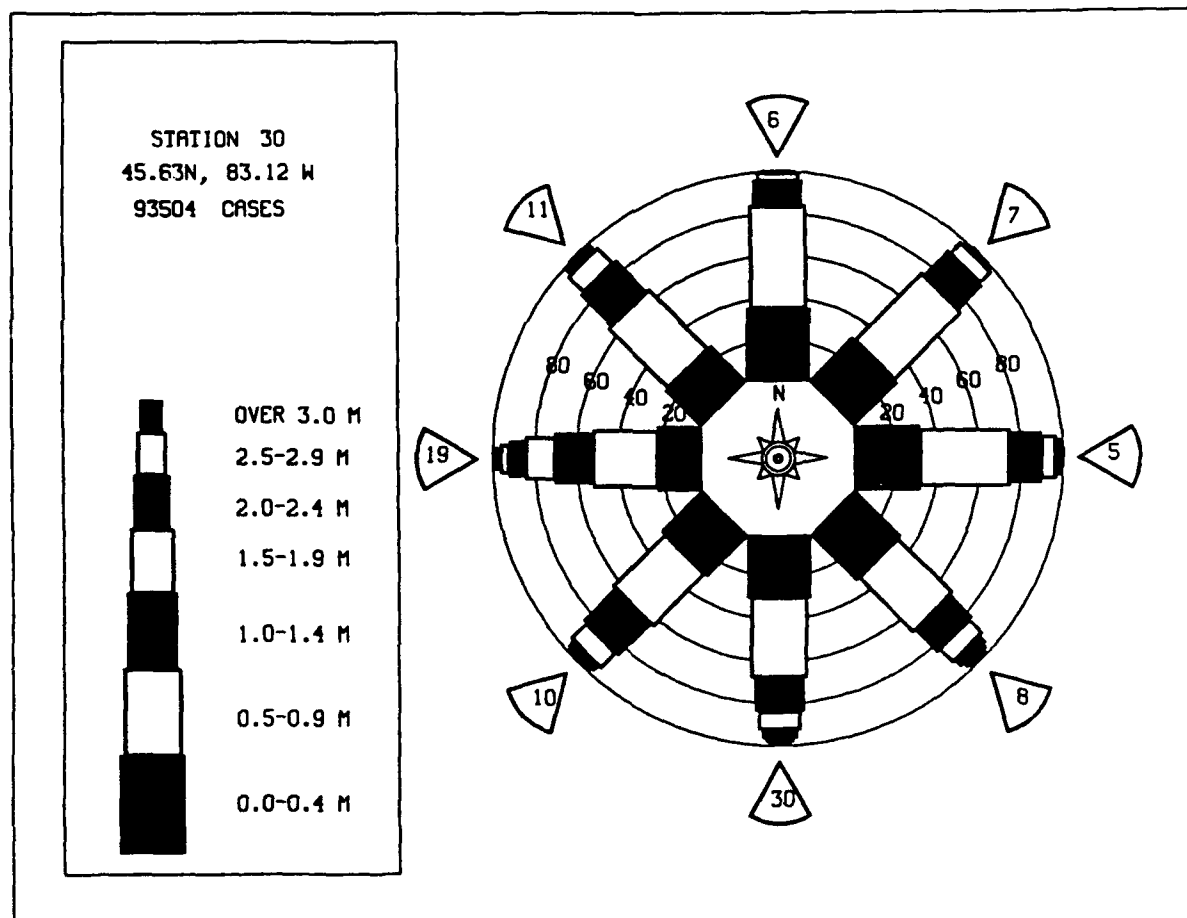
STATION H30 45.63N 83.12W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	308	510	29	12	1						860
0.50-0.99		878	252	27	1	2					1170
1.00-1.49			309	54	4						367
1.50-1.99			58	101	45						204
2.00-2.49				22	23	2					47
2.50-2.99				1	3	1					5
3.00-3.49					1	1					2
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	308	1388	658	217	78	6	0	0	0	0	2490
MEAN HS(M) = 0.7	LARGEST HS(M) = 3.2		MEAN TP(SEC) = 3.4		NO. OF CASES = 2490						

STATION H30 45.63N 83.12W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	704	1347	516	169	26	1	.	.	.	.	2763
0.50-0.99	.	1498	1510	583	188	15	.	.	.	.	3794
1.00-1.49	.	.	752	652	250	57	3	.	.	.	1716
1.50-1.99	.	.	48	550	261	82	12	.	.	.	953
2.00-2.49	.	.	.	35	290	56	24	.	.	.	405
2.50-2.99	.	.	.	1	74	88	27	.	.	.	190
3.00-3.49	4	62	16	2	.	.	84
3.50-3.99	14	26	2	.	.	42
4.00-4.49	1	16	1	.	.	18
4.50-4.99	5	2	.	.	7
5.00-5.49	1	1	.	.	2
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	704	2845	2826	1990	1093	376	132	8	0	0	

MEAN HS(M)= 0.9 LARGEST HS(M)= 6.8 MEAN TP(SEC)= 4.2 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H30 (45.63N 83.12W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	0.7	1.0	1.0	1.1	1.1	0.9	0.7	0.7	0.8	1.2	1.2	1.0	1.0
1957	1.1	1.0	1.0	1.0	1.0	1.0	0.8	0.7	0.9	1.6	1.6	1.5	1.0
1958	0.9	1.0	1.0	1.0	1.3	1.4	0.9	1.1	1.4	1.4	1.7	1.1	1.1
1959	1.1	1.2	1.1	1.2	1.4	1.4	1.1	1.1	1.0	1.4	1.2	1.1	1.1
1960	1.0	0.9	0.7	1.0	0.9	0.7	0.6	0.6	0.6	0.9	1.0	0.9	0.8
1961	0.8	0.8	0.6	0.8	0.8	0.8	0.7	0.9	0.9	0.7	0.8	0.9	0.8
1962	1.0	0.8	0.9	0.8	0.8	0.8	0.7	0.6	0.6	0.6	1.0	0.8	0.8
1963	1.3	0.9	1.2	1.4	1.1	1.0	0.7	0.6	0.6	0.6	1.1	0.9	1.0
1964	1.1	1.2	0.8	0.8	0.6	0.8	0.7	1.0	1.1	1.1	1.1	1.0	0.9
1965	1.0	0.8	1.1	0.8	0.8	0.7	0.7	0.8	1.3	1.0	0.8	1.1	0.8
1966	1.1	1.1	1.0	1.0	0.9	0.6	0.6	0.7	1.1	1.1	0.9	1.1	1.1
1967	0.8	0.8	0.8	1.2	0.8	0.7	0.9	0.7	0.8	1.0	0.9	1.1	1.1
1968	1.0	0.6	0.8	0.8	0.7	0.8	0.5	0.7	0.7	0.9	0.8	0.8	0.8
1969	0.6	1.0	0.8	1.0	0.9	0.7	0.7	0.7	0.9	1.0	1.1	1.0	0.8
1970	1.1	1.2	1.0	0.9	0.8	0.5	0.8	0.6	0.7	0.9	1.1	1.2	0.9
1971	1.4	0.8	0.8	0.6	0.5	0.5	0.5	0.5	0.7	1.0	0.8	0.9	0.9
1972	1.1	0.7	0.9	1.0	0.9	0.6	0.7	0.6	0.8	0.9	1.1	1.0	0.9
1973	0.9	0.8	1.1	0.8	0.9	0.9	0.7	0.8	0.8	1.0	0.9	0.9	0.9
1974	1.2	0.9	0.9	0.9	0.7	0.8	0.8	0.8	0.9	1.1	1.1	0.9	0.9
1975	1.1	1.2	1.4	1.0	0.9	0.7	0.8	0.7	0.9	1.1	1.1	1.1	1.1
1976	1.1	1.3	1.0	0.8	0.8	0.8	0.9	1.0	0.9	1.1	1.1	1.2	1.1
1977	1.0	0.9	1.1	1.0	0.8	0.9	0.6	0.7	0.9	1.1	1.1	1.1	1.1
1978	0.7	0.7	1.0	0.8	0.7	0.8	0.6	0.7	0.9	1.0	1.0	1.0	1.0
1979	0.7	1.2	1.1	1.1	0.7	0.7	0.6	0.5	0.7	0.9	0.8	0.8	0.8
1980	0.7	1.2	1.1	1.2	0.6	0.6	0.6	0.5	0.7	0.9	1.0	1.1	1.1
1981	0.9	0.8	0.7	0.9	0.8	0.7	0.6	0.6	0.8	1.0	1.0	1.2	0.9
1982	0.9	0.8	0.7	0.9	0.8	0.7	0.6	0.6	0.8	1.0	1.0	1.2	0.9
1983	0.9	0.8	0.7	0.9	0.8	0.7	0.6	0.6	0.8	1.0	1.0	1.2	0.9
1984	0.9	0.8	0.7	0.9	0.8	0.7	0.6	0.6	0.8	1.0	1.0	1.2	0.9
1985	0.9	0.8	0.7	0.9	0.8	0.7	0.6	0.6	0.8	1.0	1.0	1.2	0.9
1986	0.9	0.8	0.7	0.9	0.8	0.7	0.6	0.6	0.8	1.0	1.0	1.2	0.9
1987	1.0	0.8	0.8	1.0	0.8	0.8	0.9	0.9	0.8	0.9	1.1	1.1	0.9
MEAN	1.0	0.9	1.0	1.0	0.9	0.8	0.7	0.7	0.8	1.0	1.1	1.0	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H30 (45.63N 83.12W)

YEAR	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	2.6	4.5	4.8	4.4	4.2	4.0	2.2	2.8	3.4	4.2	4.9	5.1	
1957	4.8	3.3	3.3	3.4	3.9	3.1	3.5	3.8	3.2	3.4	4.4	3.4	
1958	3.6	3.3	3.3	3.4	3.8	3.8	3.1	3.2	3.2	3.4	3.9	3.8	
1959	3.5	3.4	3.0	3.9	3.7	3.3	3.4	3.6	3.6	3.5	3.4	3.2	
1960	3.3	3.2	3.2	3.4	3.4	3.8	3.0	3.0	3.0	3.3	3.6	3.6	
1961	3.0	3.2	3.2	3.3	3.3	3.0	2.7	3.1	3.3	3.2	3.4	3.1	
1962	3.0	3.0	3.2	3.4	3.1	3.1	2.2	3.3	3.4	3.2	3.7	3.8	
1963	2.2	3.6	3.6	3.6	3.6	3.6	2.7	2.2	2.6	3.1	3.9	3.8	
1964	2.2	3.3	3.9	3.8	3.1	2.2	2.0	2.7	3.3	3.4	3.6	3.7	
1965	2.1	3.3	3.4	3.0	3.2	3.3	2.2	2.1	3.3	3.3	3.2	3.9	
1966	2.7	3.3	3.3	3.3	3.4	3.3	2.2	2.2	3.3	3.4	3.7	3.7	
1967	2.2	3.3	3.6	3.3	3.7	3.3	2.2	2.2	3.3	3.6	3.3	3.2	
1968	2.2	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.4	
1969	2.2	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	
1970	2.2	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	
1971	2.2	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	
1972	2.2	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	
1973	2.2	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	
1974	2.2	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	
1975	2.2	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	
1976	2.2	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	
1977	2.2	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	
1978	2.2	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	
1979	2.2	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	
1980	2.2	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	
1981	2.2	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	
1982	2.2	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	
1983	2.2	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	
1984	2.2	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	
1985	2.2	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	
1986	2.2	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	
1987	2.2	3.3	3.3	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	

32 YR. STATISTICS FOR WIS STATION H30

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.9
MEAN PEAK WAVE PERIOD	(SECONDS)	4.2
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	180.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.7
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.3
LARGEST WAVE HS	(METERS)	6.8
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	10.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	147.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		64041318

STATION H31 45.50N 82.92W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	218	865	109	7	.	.	.	.	.	.	1199
0.50-0.99	.	685	914	211	4	.	.	.	.	.	1812
1.00-1.49	.	.	269	407	74	2	.	.	.	.	752
1.50-1.99	.	.	94	32	56	7	.	.	.	.	189
2.00-2.49	.	.	1	8	2	4	.	.	.	.	21
2.50-2.99	.	.	.	1	1	.	1	.	.	.	3
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	218	1550	1387	666	143	13	1	0	0	0	3727.
MEAN HS(M) = 0.7	LARGEST HS(M)=		2.6	MEAN TP(SEC)=		3.8	NO. OF CASES=		3727.		

STATION H31 45.50N 82.92W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	245	851	72	6	1	.	.	.	.	.	1175
0.50-0.99	.	472	801	99	.	.	.	.	.	.	1372
1.00-1.49	.	.	244	387	12	.	.	.	.	.	643
1.50-1.99	.	.	22	226	36	.	.	.	.	.	284
2.00-2.49	.	.	.	13	60	4	.	.	.	.	77
2.50-2.99	23	2	.	.	.	.	25
3.00-3.49	12	.	.	.	.	12
3.50-3.99	3	.	.	.	.	3
4.00-4.49	1	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	245	1323	1139	731	132	21	1	0	0	0	
MEAN BS(M) = 0.8	LARGEST BS(M)=		4.2	MEAN TP(SEC)=		3.8	NO. OF CASES=		3369.		

STATION H31 45.50N 82.92W AZIMUTH(DEGREES) = 45.
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	242	805	80	2							1129
0.50-0.99		522	1006	80	3						1611
1.00-1.49			455	483	2						940
1.50-1.99			3	555	40	3	1				602
2.00-2.49				1	274	1	1				277
2.50-2.99					86	3					89
3.00-3.49					1	39	1				41
3.50-3.99						10					10
4.00-4.49						5					5
4.50-4.99							2				2
5.00-5.49							1				1
5.50-5.99								1			1
6.00-6.49											0
6.50-6.99								1			1
7.00+								1			1
TOTAL	242	1327	1544	1121	406	61	9	2	0	0	4415
MEAN HS(M) = 1.0	LARGEST HS(M)=		7.0	MEAN TP(SEC)=		4.1	NO. OF CASES=		4415.		

STATION H31 45.50N 82.92W AZIMUTH(DEGREES) = 67.
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	164	587	31	1	.	.	.	.	.	.	78
0.50-0.99	.	376	806	99	5	.	.	.	.	.	128
1.00-1.49	.	.	273	433	26	1	.	.	.	.	73
1.50-1.99	.	.	1	403	121	.	.	.	.	.	52
2.00-2.49	.	.	.	5	255	4	.	.	.	.	26
2.50-2.99	81	43	.	.	.	.	12
3.00-3.49	1	40	.	.	.	.	4
3.50-3.99	10	1	.	.	.	1
4.00-4.49	6	.	.	.	.
4.50-4.99	3	.	.	.	.
5.00-5.49	1	.	.	.	.
5.50-5.99
6.00-6.49
6.50-6.99
7.00+
TOTAL	164	963	1111	941	489	98	11	0	0	0	
MEAN HS(M) = 1.1	LARGEST HS(M)=		5.3	MEAN TP(SEC)=		4.3	NO. OF CASES=		3541.		

STATION H31 45.50N 82.92W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	219	595	27	1	1	.	.	.	.	.	842
0.50-0.99	.	367	717	151	40	.	.	.	.	.	1236
1.00-1.49	.	.	187	475	238	18	.	.	.	.	702
1.50-1.99	.	.	1	316	238	8	.	.	.	.	563
2.00-2.49	62	96	3	.	.	.	257
2.50-2.99	56	4	.	.	.	161
3.00-3.49	11	22	.	.	.	52
3.50-3.99	11	.	.	.	33
4.00-4.49	2	.	.	.	11
4.50-4.99	2	.	.	.	2
5.00-5.49	2	.	.	4
5.50-5.99	1	.	.	1
6.00-6.49	1	.	.	1
6.50-6.99	0
7.00+	0
TOTAL	219	962	932	943	579	191	45	4	0	0	3635.

MEAN HS(M) = 1.1 LARGEST HS(M)= 6.0 MEAN TP(SEC)= 4.4 NO. OF CASES= 3635.

STATION H31 45.50N 82.92W AZIMUTH(DEGREES) = 112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	192	316	17	116	2	.	.	.	.	.	525
0.50-0.99	.	274	479	313	91	1	.	.	.	.	871
1.00-1.49	.	.	140	173	228	15	.	.	.	.	548
1.50-1.99	.	.	1	1	163	72	.	.	.	.	418
2.00-2.49	16	144	18	.	.	.	260
2.50-2.99	64	21	1	.	.	178
3.00-3.49	4	22	.	.	.	86
3.50-3.99	22	.	.	.	56
4.00-4.49	6	.	.	.	24
4.50-4.99	2	.	.	13
5.00-5.49	4	.	.	4
5.50-5.99	2	1	.	3
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	192	590	637	603	520	301	125	14	1	0	2800.

MEAN HS(M) = 1.3 LARGEST HS(M)= 5.7 MEAN TP(SEC)= 4.7 NO. OF CASES= 2800.

STATION H31 45.50N 82.92W AZIMUTH(DEGREES) = 135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	242	602	110	25	1	.	.	.	.	.	980
0.50-0.99	.	426	814	348	24	1	.	.	.	.	1613
1.00-1.49	.	.	156	425	149	2	1	.	.	.	733
1.50-1.99	.	.	1	167	250	41	.	.	.	.	459
2.00-2.49	.	.	.	1	109	66	6	.	.	.	182
2.50-2.99	12	81	23	.	.	.	116
3.00-3.49	27	24	.	.	.	51
3.50-3.99	1	34	.	.	.	35
4.00-4.49	14	1	.	.	15
4.50-4.99	1	1	.	.	2
5.00-5.49	1	.	.	1
5.50-5.99	1	.	.	1
6.00-6.49	1	.	1
6.50-6.99	2	.	2
7.00+	0
TOTAL	242	1028	1081	966	545	219	103	4	3	0	3932.

MEAN HS(M) = 1.0 LARGEST HS(M)= 6.6 MEAN TP(SEC)= 4.4 NO. OF CASES= 3932.

STATION H31 45.50N 82.92W AZIMUTH(DEGREES) = 157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	372	1404	521	265	53	4	.	.	.	.	2619
0.50-0.99	.	845	1440	1024	320	43	4	.	.	.	3675
1.00-1.49	.	.	319	519	344	115	19	1	.	.	1317
1.50-1.99	.	.	4	314	235	87	22	.	.	.	659
2.00-2.49	.	.	.	11	188	75	21	.	.	.	285
2.50-2.99	39	91	13	1	.	.	144
3.00-3.49	1	43	13	4	.	.	61
3.50-3.99	5	28	1	1	.	35
4.00-4.49	11	2	1	.	14
4.50-4.99	6	.	.	.	8
5.00-5.49	1	4	.	.	5
5.50-5.99	1	1	1	1	4
6.00-6.49	1	.	.	1
6.50-6.99	0
7.00+	0
TOTAL	372	2249	2284	2133	1180	460	139	17	3	1	8284.

MEAN HS(M) = 0.8 LARGEST HS(M)= 6.4 MEAN TP(SEC)= 4.4 NO. OF CASES= 8284.

STATION H31 45.50N 82.92W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	585	1759	1604	499	97	7	1	.	.	.	4552
0.50-0.99	.	1184	2136	2066	918	90	5	.	.	.	6399
1.00-1.49	.	.	641	861	991	320	35	2	.	.	2850
1.50-1.99	.	.	10	669	448	365	56	1	.	.	1549
2.00-2.49	.	.	.	26	403	146	86	6	.	.	667
2.50-2.99	81	155	64	6	1	.	307
3.00-3.49	2	119	44	11	2	.	178
3.50-3.99	14	83	9	2	.	108
4.00-4.49	1	54	.	1	.	56
4.50-4.99	20	8	1	.	29
5.00-5.49	1	3	.	.	4
5.50-5.99	3	2	.	5
6.00-6.49	1	.	1
6.50-6.99	0
7.00+	0
TOTAL	585	2943	4391	4121	2940	1217	449	49	10	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 6.1 MEAN TP(SEC)= 4.7 NO. OF CASES= 15641.

STATION H31 45.50N 82.92W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	468	1191	182	39	14	4	.	.	.	.	1898
0.50-0.99	.	964	1238	198	111	24	2	.	.	.	2537
1.00-1.49	.	.	890	475	154	79	9	.	.	.	1607
1.50-1.99	.	.	14	628	158	110	20	1	.	.	931
2.00-2.49	.	.	.	51	202	89	41	3	.	.	386
2.50-2.99	.	.	.	1	56	72	41	4	.	.	174
3.00-3.49	10	25	31	8	.	.	74
3.50-3.99	1	16	27	3	3	.	50
4.00-4.49	5	7	6	3	.	21
4.50-4.99	2	2	2	.	6
5.00-5.49	3	3	.	6
5.50-5.99	1	.	.	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	468	2155	2324	1392	706	424	180	31	11	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.7 MEAN TP(SEC)= 4.3 NO. OF CASES= 7212.

STATION H31 45.50N 82.92W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	474	927	66	6	3	.	.	.	.	.	1476
0.50-0.99	.	747	903	47	22	3	.	.	.	.	1722
1.00-1.49	.	.	588	353	18	19	.	.	.	.	978
1.50-1.99	.	.	3	429	14	7	5	1	.	.	459
2.00-2.49	.	.	.	44	115	3	4	.	.	.	166
2.50-2.99	57	2	6	1	.	.	66
3.00-3.49	10	8	.	.	.	.	19
3.50-3.99	8	1	1	.	.	10
4.00-4.49	3	.	.	.	.	3
4.50-4.99	1	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	474	1674	1560	879	239	54	16	3	1	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.7 MEAN TP(SEC)= 3.8 NO. OF CASES= 4595.

STATION H31 45.50N 82.92W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	379	821	51	2	.	.	.	.	.	.	1253
0.50-0.99	.	593	786	79	4	3	.	.	.	.	1465
1.00-1.49	.	.	351	397	9	.	.	.	.	.	757
1.50-1.99	.	.	1	390	82	2	.	.	.	.	475
2.00-2.49	.	.	.	8	189	.	1	.	.	.	198
2.50-2.99	59	33	.	.	.	.	92
3.00-3.49	5	32	.	.	.	.	37
3.50-3.99	8	2	.	.	.	10
4.00-4.49	3	.	.	.	3
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	379	1414	1189	876	348	78	6	0	0	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.4 MEAN TP(SEC)= 3.9 NO. OF CASES= 4020.

STATION H31 45.50N 82.92W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	398	1215	106	3							1722
0.50-0.99		645	1497	237	3						2382
1.00-1.49			343	749	43						1135
1.50-1.99			5	623	256	2	1				887
2.00-2.49				20	466	7					493
2.50-2.99					144	78					222
3.00-3.49						104	3				107
3.50-3.99						27	12				39
4.00-4.49						2	16				18
4.50-4.99							8				8
5.00-5.49							1				1
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	398	1860	1951	1632	912	220	41	0	0	0	6571

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.0 MEAN TP(SEC)= 4.2 NO. OF CASES= 6571.

STATION H31 45.50N 82.92W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	249	1783	490	10							2532
0.50-0.99		739	2883	865	6						4493
1.00-1.49			794	1426	185		1				2406
1.50-1.99			4	1187	804	10					2008
2.00-2.49				82	1093	37					1232
2.50-2.99				1	280	336	4				621
3.00-3.49					13	244	9				266
3.50-3.99						32	55				107
4.00-4.49						2	41				43
4.50-4.99							14	1			15
5.00-5.49							2	5			7
5.50-5.99											0
6.00-6.49									1		1
6.50-6.99											0
7.00+											0
TOTAL	249	2522	4171	3571	2381	701	126	6	1	0	12850

MEAN HS(M) = 1.2 LARGEST HS(M)= 6.4 MEAN TP(SEC)= 4.6 NO. OF CASES= 12850.

STATION H31 45.50N 82.92W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	205	860	312	20							1397
0.50-0.99		459	1295	388	6	1					2151
1.00-1.49			633	635	127						1395
1.50-1.99			4	309	309	2					844
2.00-2.49				69	278	17					364
2.50-2.99					90	25					115
3.00-3.49					7	22	2				31
3.50-3.99						8					8
4.00-4.49						1					1
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	205	1319	2244	1641	819	76	2	0	0	0	5905

MEAN HS(M) = 1.0 LARGEST HS(M)= 4.0 MEAN TP(SEC)= 4.3 NO. OF CASES= 5905.

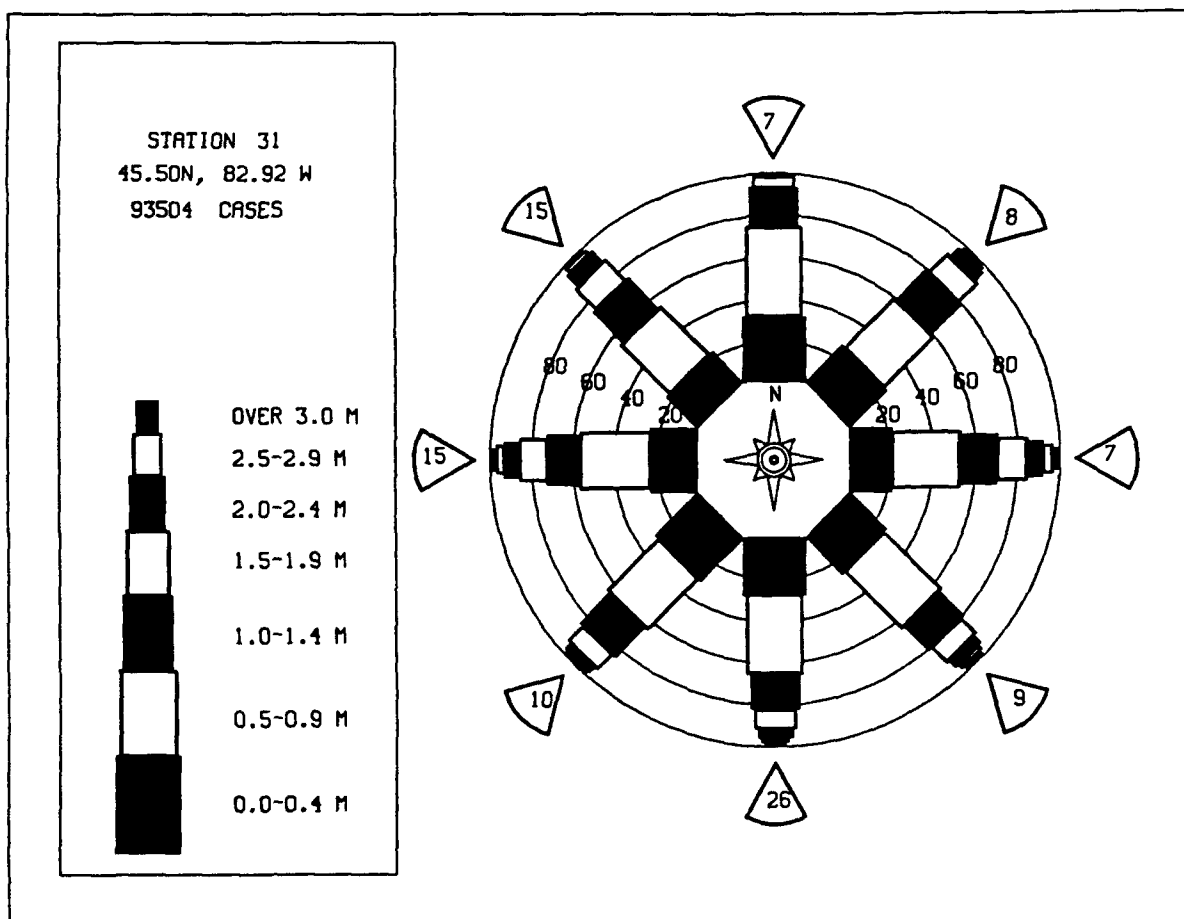
STATION H31 45.50N 82.92W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	151	636	86	3							876
0.50-0.99		510	597	79	1						1187
1.00-1.49			303	263	29						595
1.50-1.99			52	222	77	3					354
2.00-2.49				35	96	17	1				149
2.50-2.99				1	32	4	1				38
3.00-3.49					6	1					7
3.50-3.99						1					1
4.00-4.49						1					1
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	151	1146	1038	603	241	27	2	0	0	0	3007

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.2 MEAN TP(SEC)= 3.9 NO. OF CASES= 3007.

STATION H31 45.50N 82.92W FOR ALL DIRECTIONS											TOTAL
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	481	1522	387	89	17	1	.	.	.	2497	
0.50-0.99	.	981	1831	609	143	16	1	.	.	3581	
1.00-1.49	.	.	639	861	230	54	6	.	.	1810	
1.50-1.99	.	.	22	687	335	66	10	.	.	1120	
2.00-2.49	.	.	.	38	416	58	16	.	.	528	
2.50-2.99	112	117	17	1	.	247	
3.00-3.49	5	84	15	2	.	106	
3.50-3.99	18	32	1	.	51	
4.00-4.49	2	19	1	.	22	
4.50-4.99	6	2	.	8	
5.00-5.49	2	.	2	
5.50-5.99	0	
6.00-6.49	0	
6.50-6.99	0	
7.00+	0	
TOTAL	481	2503	2899	2284	1258	416	122	9	0	0	
MEAN HS(M)= 1.0	LARGEST HS(M)= 7.0		MEAN TP(SEC)= 4.3		TOTAL CASES= 93504.						

MEAN HS(M)= 1.0 LARGEST HS(M)= 7.0 MEAN TP(SEC)= 4.3 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H31 (45.50N 82.92W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.9	1.1	1.2	1.2	1.2	0.9	0.7	0.7	0.9	1.3	1.3	1.1	1.1
1957	1.2	1.1	1.1	1.1	1.1	1.0	0.8	0.7	1.1	1.0	1.1	1.1	1.1
1958	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1959	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1960	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1961	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
1962	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
1963	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
1964	1.3	0.9	1.3	1.5	1.2	0.8	0.7	1.0	1.0	1.0	1.1	1.1	1.1
1965	1.2	1.3	1.3	1.1	1.0	0.9	0.8	0.7	1.0	1.2	1.2	1.1	1.0
1966	1.2	0.9	1.3	1.1	1.0	0.7	0.8	0.7	0.9	1.3	1.1	0.8	1.0
1967	1.2	1.2	1.1	1.1	1.0	0.7	0.6	0.7	0.7	1.2	1.0	1.2	1.0
1968	1.0	1.0	1.0	1.3	0.8	0.8	0.9	0.7	0.8	1.1	1.1	1.3	1.0
1969	1.1	0.7	0.8	0.9	0.9	0.7	0.8	0.6	0.7	0.9	0.9	1.0	0.8
1970	0.7	1.1	0.9	1.1	1.0	0.7	0.7	0.7	0.9	1.1	1.3	1.2	1.0
1971	1.2	1.3	1.1	1.1	1.0	0.5	0.8	0.7	0.7	1.0	1.1	1.3	1.0
1972	1.4	0.9	1.1	0.8	0.6	0.6	0.5	0.6	0.8	1.1	0.9	1.1	1.0
1973	1.1	1.1	1.1	1.1	1.0	0.7	0.7	0.6	0.9	1.0	1.3	1.1	1.0
1974	1.0	0.9	1.3	0.9	0.9	0.9	0.7	0.8	0.9	1.1	0.9	1.1	1.0
1975	1.3	1.1	1.0	1.0	0.7	0.8	0.8	0.8	0.9	1.2	1.2	1.1	1.0
1976	1.3	1.3	1.5	1.1	0.9	0.7	0.8	0.7	0.9	1.1	1.1	1.1	1.0
1977	1.1	1.1	1.4	1.1	0.9	0.8	0.8	1.0	1.0	1.0	1.1	1.3	1.0
1978	1.2	0.8	0.9	1.1	0.9	0.9	0.8	0.9	1.0	1.1	1.1	1.1	1.0
1979	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0
1980	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0
1981	0.8	0.8	0.9	0.9	0.7	0.8	0.6	0.7	1.0	1.1	1.1	1.1	0.9
1982	1.3	0.8	1.3	1.1	0.6	0.6	0.8	0.7	0.8	1.1	1.1	1.1	1.0
1983	1.0	0.8	1.0	1.1	0.9	0.7	0.8	0.8	0.8	1.1	1.1	1.1	1.0
1984	0.9	0.9	1.2	1.1	1.0	0.8	0.8	0.9	0.9	1.1	1.1	1.1	1.0
1985	1.0	0.9	1.3	1.1	0.9	1.0	0.8	0.8	0.8	1.1	1.1	1.1	1.0
1986	1.1	0.8	1.1	1.1	0.8	0.9	0.7	0.8	0.8	1.1	1.1	1.1	1.0
1987	1.2	0.9	1.1	1.2	1.0	0.9	1.0	0.9	1.0	1.2	1.2	1.2	1.0
MEAN	1.1	1.0	1.1	1.1	0.9	0.8	0.7	0.7	0.9	1.0	1.2	1.1	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H31 (45.50N 82.92W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.2	5.1	7.0	4.0	4.6	3.8	2.7	2.7	3.4	4.2	4.8	4.9	
1957	4.5	5.5	4.4	4.4	3.5	3.5	5.3	3.5	3.4	3.7	5.1	5.8	
1958	3.6	5.3	2.6	4.6	5.5	3.2	3.3	3.4	3.0	4.5	3.3	4.2	
1959	4.0	5.3	3.6	6.5	4.8	3.7	4.4	3.3	3.6	4.8	3.8	3.8	
1960	3.6	4.1	3.3	3.6	3.7	2.1	2.7	3.0	3.3	3.5	4.4	0.0	
1961	3.3	3.3	3.0	4.6	3.3	2.5	2.3	3.6	2.2	3.3	3.3	3.3	
1962	3.3	3.3	3.1	3.5	3.3	3.7	2.3	3.0	3.0	2.7	3.9	0.0	
1963	3.3	4.4	4.7	5.0	3.5	3.8	3.1	3.6	2.2	3.3	3.2	3.7	
1964	4.0	3.7	4.4	6.6	4.2	2.5	3.0	3.7	3.3	3.7	4.5	3.9	
1965	2.9	4.4	6.0	3.3	3.3	2.7	3.0	3.3	3.3	2.8	3.1	4.4	
1966	4.0	4.3	3.6	4.6	4.8	2.2	2.2	2.3	3.2	4.1	3.6	2.2	
1967	4.4	4.4	3.3	3.5	3.3	2.4	2.2	2.1	3.2	4.6	3.9	4.4	
1968	2.7	4.0	3.3	3.6	4.4	2.5	2.7	2.7	2.2	3.3	3.3	3.3	
1969	3.0	3.3	2.8	3.3	3.6	2.4	2.2	2.0	2.4	3.5	2.6	3.9	
1970	2.1	1.1	3.8	4.4	2.9	3.0	2.6	2.6	3.3	3.5	3.3	4.4	
1971	4.6	3.2	3.3	3.3	3.1	2.0	2.2	2.2	3.3	3.3	3.9	4.6	
1972	3.1	4.6	3.3	3.3	3.3	1.8	1.1	1.5	3.3	4.6	3.3	3.3	
1973	3.3	3.1	3.2	3.2	3.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1974	5.0	3.3	3.3	4.4	3.3	3.3	3.3	3.3	3.3	1.1	3.3	3.3	
1975	5.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1976	5.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1977	5.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1978	5.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1979	5.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1980	5.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1981	2.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1982	4.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1983	4.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1984	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1985	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1986	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1987	3.8	2.2	3.3	4.2	3.1	3.1	3.0	3.4	2.6	2.0	3.9	3.3	

32 YR. STATISTICS FOR WIS STATION H31

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	1.0
MEAN PEAK WAVE PERIOD (SECONDS)	4.3
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	180.0
STANDARD DEVIATION OF WAVE HS (METERS)	0.7
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.3
LARGEST WAVE HS (METERS)	7.0
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	9.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	54.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	56030712

STATION H32 45.63N 82.71W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49											1486
0.50-0.99	648	825	11	2	.	.	.	.	.	.	2686
1.00-1.49	.	2091	590	5	.	.	.	.	.	.	717
1.50-1.99	.	.	713	3	.	.	1	.	.	.	208
2.00-2.49	.	.	135	73	.	.	.	.	.	.	14
2.50-2.99	.	.	.	14	.	.	.	.	.	.	1
3.00-3.49	.	.	.	.	1	.	.	.	.	.	0
3.50-3.99	.	.	.	.	.	.	.	.	.	.	0
4.00-4.49	.	.	.	.	.	.	.	.	.	.	0
4.50-4.99	.	.	.	.	.	.	.	.	.	.	0
5.00-5.49	.	.	.	.	.	.	.	.	.	.	0
5.50-5.99	.	.	.	.	.	.	.	.	.	.	0
6.00-6.49	.	.	.	.	.	.	.	.	.	.	0
6.50-6.99	.	.	.	.	.	.	.	.	.	.	0
7.00+	.	.	.	.	.	.	.	.	.	.	0
TOTAL	648	2916	1449	97	1	0	1	0	0	0	
MEAN HS(M) = 0.7	LARGEST HS(M)= 2.9		MEAN TP(SEC)= 3.2		NO. OF CASES= 4786.						

STATION H32 45.63N 82.71W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	611	660	22	4	.	.	.	.	.	.	1297
0.50-0.99	.	1578	575	12	.	i	.	.	.	.	2166
1.00-1.49	.	.	664	7	i	.	.	.	.	.	672
1.50-1.99	.	.	50	208	i	.	.	.	.	.	259
2.00-2.49	.	.	.	40	12	.	.	.	.	.	52
2.50-2.99	23	.	.	.	.	.	23
3.00-3.49	3	.	.	.	.	.	3
3.50-3.99	i	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	611	2238	1311	271	40	2	0	0	0	0	
MEAN HS(M) = 0.7	LARGEST HS(M) = 3.7		MEAN TP(SEC) = 3.3		NO. OF CASES = 4190.						

STATION H32 45.63N 82.71W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	669	644	42	3							1358
0.50-0.99		1640	1002	28	8						2678
1.00-1.49			1133	7	12	1					1153
1.50-1.99			40	575	3	2					620
2.00-2.49				90	25		1				116
2.50-2.99				1	40						41
3.00-3.49					10						10
3.50-3.99					3						3
4.00-4.49						2					2
4.50-4.99						1					1
5.00-5.49							2				2
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	669	2284	2217	704	101	6	3	0	0	0	
MEAN HS(M) = 0.8	LARGEST HS(M)=		5.3	MEAN TP(SEC)=		3.6	NO. OF CASES=		5606.		

STATION H32 45.63N 82.71W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	394	361	36	3	.	.	.	.	.	.	794
0.50-0.99	.	991	639	40	6	.	.	.	.	.	1676
1.00-1.49	.	.	761	113	18	2	.	.	.	.	894
1.50-1.99	.	.	13	555	10	5	.	.	.	.	583
2.00-2.49	.	.	.	89	73	6	1	.	.	.	168
2.50-2.99	47	2	.	.	.	.	50
3.00-3.49	11	1	1	.	.	.	13
3.50-3.99	1	7	.	.	.	.	8
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	394	1352	1449	800	166	23	3	0	0	0	
MEAN HS(M) = 1.0	LARGEST HS(M) = 3.9		MEAN TP(SEC) = 3.8		NO. OF CASES = 3925.						

STATION H32 45.63N 82.71W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 1.0 LARGEST HS(M)= 4.1 MEAN TP(SEC)= 3.8 NO. OF CASES= 3903.

STATION H32 45.63N 82.71W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN JS(M) = 1.1 LARGEST BS(M)= 5.6 MEAN TP(SEC)= 4.1 NO. OF CASES= 2309.

STATION H32 45.63N 82.71W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 1.1 LARGEST HS(M)= 6.9 MEAN TP(SEC)= 4.4 NO. OF CASES= 3405.

STATION H32 45.63N 82.71W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 1.0 LARGEST HS(M)= 8.0 MEAN TP(SEC)= 4.5 NO. OF CASES= 7407

MEAN HS(M) = 1.1 LARGEST HS(M)= 8.4 MEAN TP(SEC)= 4.8 NO. OF CASES= 15082.

MEAN HS(M) = 1.1 LARGEST HS(M) = 7.4 MEAN TP(SEC) = 4.6 NO. OF CASES = 10176.

MEAN HS(M) = 1.0 LARGEST HS(M)= 7.5 MEAN TP(SEC)= 4.1 NO. OF CASES= 6654.

MEAN HS(M) = 0.8 LARGEST HS(M) = 5.2 MEAN TP(SEC) = 3.4 NO. OF CASES = 4720.

STATION H32 45.63N 82.71W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	883	753	8	3	.	.	.	.	.	.	1647
0.50-0.99	.	1951	594	.	.	.	.	.	.	.	2545
1.00-1.49	.	.	847	1	.	.	.	.	.	.	848
1.50-1.99	.	.	296	207	.	1	2	.	.	.	506
2.00-2.49	.	.	.	126	.	.	1	.	.	.	127
2.50-2.99	.	.	.	6	10	.	.	.	.	.	16
3.00-3.49	6	.	.	.	.	.	1
3.50-3.99	1	.	.	.	.	.	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	883	2704	1745	343	17	1	3	0	0	0	5332.
MEAN HS(M) = 0.8	LARGEST HS(M)=		3.7	MEAN TP(SEC)=		3.3	NO. OF CASES=		5332.		

STATION H32 45.63N 82.71W AZIMUTH(DEGREES) -292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	603	753	7	2	.	.	.	.	.	.	1365
0.50-0.99	.	1885	889	1	.	.	.	.	.	.	2775
1.00-1.49	.	.	1294	.	.	.	.	.	.	.	1294
1.50-1.99	.	.	187	757	.	.	.	.	.	.	944
2.00-2.49	.	.	.	207	36	.	.	.	.	.	243
2.50-2.99	.	.	.	3	47	.	.	.	.	.	50
3.00-3.49	10	.	.	.	.	.	10
3.50-3.99	1	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	603	2638	2377	970	93	1	0	0	0	0	
MEAN HS (M) = 0.9	LARGEST HS (M) = 3.7		MEAN TP (SEC) = 3.6		NO. OF CASES = 6253.						

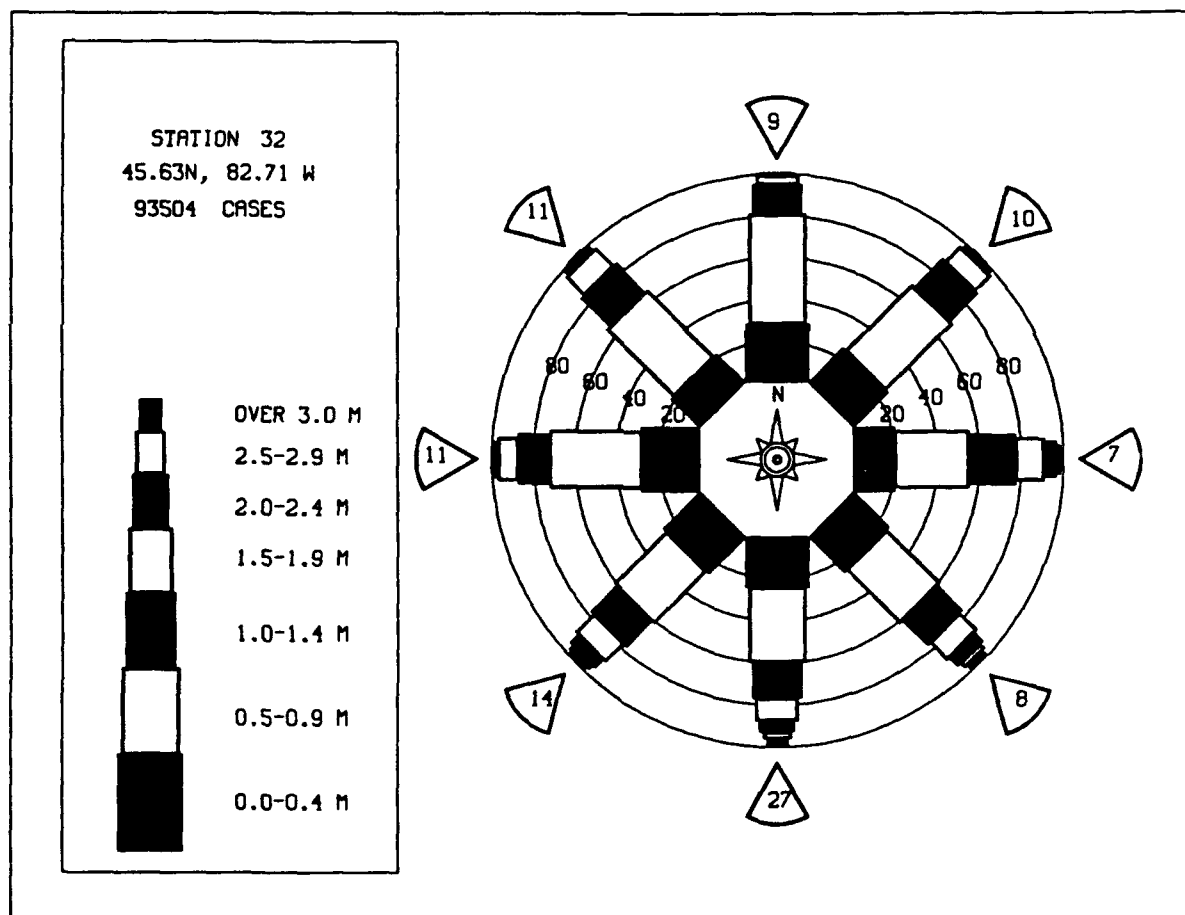
STATION H32 45.63N 82.71W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	524	593	9	.	.	.	.	.	.	.	1126
0.50-0.99	.	1707	1065	2	.	.	.	.	.	.	2774
1.00-1.49	.	.	1162	1	.	.	.	.	.	.	1163
1.50-1.99	.	.	19	665	.	.	.	.	.	.	684
2.00-2.49	.	.	.	116	23	.	.	.	.	.	139
2.50-2.99	27	.	.	.	.	.	27
3.00-3.49	5	.	.	.	.	.	5
3.50-3.99	1	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	524	2300	2255	784	55	1	0	0	0	0	
MEAN HS(M) = 0.9	LARGEST HS(M)=		3.7	MEAN TP(SEC)=		3.6	NO. OF CASES=		5540.		

STATION H32 45.63N 82.71W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	469	513	10	2							994
0.50-0.99		1644	651	2	1	.	.	.	.	.	2298
1.00-1.49			770	1	1	.	.	.	.	.	772
1.50-1.99			88	276		.	.	.	.	.	364
2.00-2.49				48	11	.	.	.	.	.	59
2.50-2.99				1	11	.	.	.	.	.	12
3.00-3.49					2	.	.	.	.	.	2
3.50-3.99					1	.	.	.	.	.	1
4.00-4.49						.	.	.	.	.	0
4.50-4.99						.	.	.	.	.	0
5.00-5.49						.	.	.	.	.	0
5.50-5.99						.	.	.	.	.	0
6.00-6.49						.	.	.	.	.	0
6.50-6.99						.	.	.	.	.	0
7.00+						.	.	.	.	.	0
TOTAL	469	2157	1519	330	27	0	0	0	0	0	
MEAN HS(M) = 0.8 LARGEST HS(M)= 3.5 MEAN TP(SEC)= 3.4 NO. OF CASES= 4216.											

STATION H32 45.63N 82.71W FOR ALL DIRECTIONS										
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER
0.00-0.49	889	1093	265	108	31	2	.	.	.	2388
0.50-0.99	.	2174	1315	348	142	32	4	.	.	4015
1.00-1.49	.	.	1167	351	159	65	11	.	.	1753
1.50-1.99	.	.	122	723	146	49	16	1	.	1057
2.00-2.49	.	.	.	109	238	38	14	1	.	400
2.50-2.99	.	.	.	3	92	73	14	1	.	183
3.00-3.49	10	57	17	2	.	86
3.50-3.99	15	28	.	.	43
4.00-4.49	1	19	3	.	21
4.50-4.99	11	3	.	14
5.00-5.49	2	4	.	6
5.50-5.99	2	.	2
6.00-6.49	1	.	1
6.50-6.99	0
7.00+	0
TOTAL	889	3267	2869	1642	818	332	136	16	0	0
MEAN HS(M)= 0.9 LARGEST HS(M)= 8.4 MEAN TP(SEC)= 4.0 TOTAL CASES= 93504.										



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H32 (45.63N 82.71W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.8	0.9	1.1	1.0	1.2	0.9	0.7	0.7	0.8	1.2	1.3	1.0	1.0
1957	1.2	0.9	1.0	1.1	1.0	0.9	0.7	0.7	0.9	0.9	1.1	1.1	1.0
1958	1.0	0.9	0.6	1.0	1.2	1.3	0.8	1.1	1.3	1.3	1.1	1.1	1.1
1959	1.1	1.3	1.2	1.2	1.4	1.0	1.1	1.0	1.2	1.3	1.1	1.1	1.2
1960	1.0	1.0	0.8	1.1	1.1	0.7	0.7	0.8	0.8	0.9	1.1	1.1	1.0
1961	0.8	0.7	1.1	0.9	0.9	0.7	0.6	0.7	1.0	1.0	1.1	1.1	0.9
1962	1.1	0.9	0.7	0.8	0.8	0.7	0.8	0.8	1.0	1.1	1.1	1.1	0.8
1963	0.8	0.8	0.9	1.0	0.8	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.1
1964	1.4	1.0	1.3	1.1	1.2	1.0	0.9	1.1	1.1	1.2	1.1	1.1	1.1
1965	1.1	0.9	0.9	0.8	1.0	0.7	0.8	0.8	0.8	1.2	1.1	1.1	1.0
1966	1.1	0.9	1.1	1.1	1.0	0.7	0.8	0.8	0.8	1.1	1.1	1.1	1.0
1967	1.1	1.3	1.1	1.1	1.1	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.0
1968	1.1	1.0	1.0	1.1	1.1	0.8	0.8	0.7	0.8	1.1	1.1	1.1	1.0
1969	1.0	0.6	0.7	0.7	0.8	0.9	0.7	0.7	1.0	1.0	0.8	0.8	0.8
1970	0.6	1.0	0.8	1.1	1.0	0.7	0.7	0.7	0.6	1.0	1.1	1.1	0.9
1971	1.1	1.3	1.0	0.9	0.9	0.6	0.8	0.8	0.8	1.1	1.2	1.1	1.0
1972	1.4	0.8	1.0	0.7	0.6	0.6	0.6	0.6	0.8	1.2	1.1	1.1	0.9
1973	1.1	0.9	1.1	1.2	1.1	0.8	0.8	0.7	0.8	1.0	1.1	1.1	1.0
1974	1.0	0.8	1.2	1.0	0.9	1.0	0.8	0.9	1.0	1.0	0.9	0.9	1.0
1975	1.3	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.9	1.1	1.2	1.1	0.9
1976	1.2	1.2	1.4	0.9	0.8	0.7	0.8	0.8	0.8	0.9	0.9	1.1	1.0
1977	0.9	1.2	0.9	0.8	0.7	0.7	0.8	1.0	0.9	1.0	1.1	1.1	1.0
1978	1.0	0.7	0.8	1.1	0.9	0.9	0.8	1.0	1.0	1.2	1.1	1.1	1.0
1979	0.9	1.0	1.1	1.0	0.9	0.9	0.7	0.8	0.8	1.1	1.1	1.1	0.9
1980	1.0	0.7	0.9	0.8	0.7	0.7	0.5	0.7	1.0	1.0	1.0	1.0	0.8
1981	0.7	1.2	0.7	1.0	0.6	0.5	0.5	0.6	0.7	1.0	0.8	0.8	0.8
1982	1.2	0.8	1.2	1.0	0.6	0.6	0.8	0.7	0.8	1.1	1.0	1.1	0.9
1983	1.0	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.8	1.1	1.1	1.1	0.9
1984	0.9	0.8	1.0	0.9	0.9	0.8	0.6	0.5	0.9	0.8	1.2	1.1	0.9
1985	0.9	0.9	1.2	0.9	0.8	0.8	0.8	0.7	0.9	0.9	1.1	1.1	0.9
1986	0.9	0.7	1.0	1.1	0.7	0.8	0.6	0.7	0.8	0.7	1.1	1.1	0.8
1987	0.9	0.7	0.7	1.0	0.8	0.7	0.7	0.8	0.7	0.8	0.9	1.0	0.8
MEAN	1.0	0.9	1.0	1.0	0.9	0.8	0.7	0.8	0.9	1.0	1.1	1.1	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H32 (45.63N 82.71W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.5	2.7	5.3	3.3	3.6	3.2	2.0	2.0	3.5	4.3	5.5	4.0	
1957	6.2	3.6	5.3	4.4	3.2	4.1	2.2	2.2	3.4	3.0	5.3	6.5	
1958	4.0	3.2	4.4	3.3	3.5	3.6	2.2	2.2	3.5	3.8	5.7	3.3	
1959	4.1	3.3	4.4	3.3	3.8	3.3	2.2	2.2	3.8	3.2	5.1	3.3	
1960	4.3	3.3	4.4	3.3	4.0	3.3	2.2	2.2	3.8	3.7	4.7	4.4	
1961	2.7	3.3	4.4	3.3	4.0	3.3	2.2	2.2	3.8	3.5	6.7	4.4	
1962	4.6	3.3	4.4	3.3	3.7	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1963	2.9	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	3.3	
1964	3.0	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1965	3.1	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1966	3.7	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1967	3.3	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1968	3.6	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1969	3.3	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1970	2.1	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1971	3.3	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1972	6.0	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1973	3.1	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1974	3.7	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1975	6.0	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1976	5.6	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1977	3.8	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1978	2.6	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1979	2.8	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1980	7.0	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1981	2.3	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1982	5.2	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1983	4.9	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1984	4.1	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1985	2.6	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1986	4.7	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	
1987	3.6	3.3	4.4	3.3	3.3	3.3	2.2	2.2	3.8	3.6	5.5	4.4	

32 YR. STATISTICS FOR WIS STATION H32

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.9
MEAN PEAK WAVE PERIOD	(SECONDS)	4.0
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	180.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.7
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.3
LARGEST WAVE HS	(METERS)	8.4
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	170.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		67102509

STATION H33 45.63N 82.52W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	620	750	8	2							1380
0.50-0.99		2046	542	1	2						2591
1.00-1.49			655	4							659
1.50-1.99			127	81		1					209
2.00-2.49				13							13
2.50-2.99											0
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	620	2796	1332	101	2	1	0	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 2.4 MEAN TP(SEC)= 3.2 NO. OF CASES= 4542.

STATION H33 45.63N 82.52W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	591	603	13	2							1209
0.50-0.99		1674	586	3	1						2264
1.00-1.49			719	3							722
1.50-1.99			62	239	1		1				303
2.00-2.49				40	17						57
2.50-2.99					21						21
3.00-3.49					4						4
3.50-3.99						1					1
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	591	2277	1380	287	44	1	1	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 3.7 MEAN TP(SEC)= 3.3 NO. OF CASES= 4289.

STATION H33 45.63N 82.52W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	664	575	33	1							1273
0.50-0.99		1575	957	9	6						2547
1.00-1.49			1085	3	2	2					1103
1.50-1.99			17	590	1	3	1				612
2.00-2.49				90	34	1	2				127
2.50-2.99					44						44
3.00-3.49					9						9
3.50-3.99					3	1					4
4.00-4.49						1					1
4.50-4.99						1					1
5.00-5.49							2				2
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	664	2151	2102	693	99	9	5	0	0	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 5.3 MEAN TP(SEC)= 3.6 NO. OF CASES= 5358.

STATION H33 45.63N 82.52W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	458	403	35	5							901
0.50-0.99		1214	507	34	5						1760
1.00-1.49			610	7	11	2					630
1.50-1.99			101	225	14	5					345
2.00-2.49				49	7	3	1				60
2.50-2.99					7						7
3.00-3.49					4						4
3.50-3.99							1				1
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	458	1617	1253	320	48	10	2	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 3.6 MEAN TP(SEC)= 3.4 NO. OF CASES= 3477.

STATION H33 45.63N 82.52W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	507	436	42	3	2	.	.	.	.	.	990
0.50-0.99	.	1266	290	85	7	.	.	.	.	.	1648
1.00-1.49	.	.	362	69	38	3	.	.	.	.	472
1.50-1.99	.	.	164	65	33	12	1	.	.	.	275
2.00-2.49	.	.	.	37	6	19	4	.	.	.	66
2.50-2.99	.	.	.	6	4	5	3	.	.	.	18
3.00-3.49	2	.	.	.	.	.	2
3.50-3.99	0
4.00-4.49	0
4.50-4.99	1	.	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	507	1702	858	265	92	39	8	1	0	0	
MEAN HS(M) = 0.8	LARGEST HS(M)= 4.8		MEAN TP(SEC)= 3.4		NO. OF CASES= 3257.						

STATION H33 45.63N 82.52W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	328	223	18	3	.	.	.	.	.	.	572
0.50-0.99	.	404	158	53	.	.	.	.	.	.	615
1.00-1.49	.	.	136	84	23	2	.	.	.	.	245
1.50-1.99	.	.	39	75	36	7	.	.	.	.	157
2.00-2.49	.	.	.	8	39	11	.	.	.	.	58
2.50-2.99	.	.	.	5	11	9	3	.	.	.	28
3.00-3.49	6	.	.	.	.	8
3.50-3.99	3	2	.	.	.	5
4.00-4.49	2	.	.	.	2
4.50-4.99	1	.	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	328	627	351	228	109	38	10	1	0	0	
MEAN HS(M) = 0.8	LARGEST HS(M) = 4.7		MEAN TP(SEC) = 3.6		NO. OF CASES = 1593.						

STATION H33 45.63N 82.52W AZIMUTH(DEGREES) ~135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	278	248	167	34	2	1	.	.	.	.	730
0.50-0.99	.	479	439	257	46	2	.	.	.	.	1225
1.00-1.49	.	.	199	224	180	14	.	.	.	.	617
1.50-1.99	.	.	9	152	163	73	3	.	.	.	460
2.00-2.49	.	.	.	12	90	71	6	.	.	.	179
2.50-2.99	.	.	.	1	23	43	29	.	.	.	96
3.00-3.49	1	31	20	.	.	.	52
3.50-3.99	2	17	3	.	.	22
4.00-4.49	9	1	.	.	10
4.50-4.99	3
5.00-5.49	2	.	.	.	0
5.50-5.99	0
6.00-6.49	1	.	0
6.50-6.99	0
7.00+	0
TOTAL	278	727	814	680	507	237	88	5	1	0	
MEAN HS(M) = 1.0 LARGEST HS(M)= 6.1 MEAN TP(SEC)= 4.5 NO. OF CASES= 3136.											

STATION H33 45.63N 82.52W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	402	579	413	179	32	1	.	.	.	.	1606
0.50-0.99	.	756	876	513	194	29	2	.	.	.	2370
1.00-1.49	.	.	329	370	209	78	14	.	.	.	1000
1.50-1.99	.	.	8	329	209	71	12	.	.	.	622
2.00-2.49	.	.	.	6	210	72	16	.	.	.	304
2.50-2.99	52	104	28	.	.	.	184
3.00-3.49	66	31	1	.	.	98
3.50-3.99	9	38	1	.	.	48
4.00-4.49	12	2	.	.	19
4.50-4.99	12	1	.	.	14
5.00-5.49	1	3	.	.	4
5.50-5.99	1	.	.	1
6.00-6.49	1	.	1
6.50-6.99	1	.	1
7.00+	2	1	3
TOTAL	402	1335	1626	1397	906	430	173	8	4	1	5891

STATION H33 45.63N 82.52W AZIMUTH(DEGREES) = 180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 1.1 LARGEST HS(M)= 8.6 MEAN TP(SEC)= 4.8 NO. OF CASES= 13080.

STATION H33 45.63N 82.52W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 1.1 LARGEST HS(M)= 7.8 MEAN TP(SEC)= 4.7 NO. OF CASES= 12125.

STATION H33 45.63N 82.52W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 1.1 LARGEST HS(M)= 7.7 MEAN TP(SEC)= 4.3 NO. OF CASES= 7806

STATION H33 45.63N 82.52W AZIMUTH(DEGREES) =247.
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 1.0 LARGEST HS(M)= 6.0 MEAN TP(SEC)= 3.9 NO. OF CASES= 5910

STATION H33 45.63N 82.52W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	683	835	7	1	.	1	.	.	.	.	1526
0.50-0.99	.	1546	1075	332	1	.	.	.	.	.	2623
1.00-1.49	.	.	1356	50	1063	2	1	.	.	.	1689
1.50-1.99	227	1	.	.	.	.	1116
2.00-2.49	156	.	4	.	.	.	449
2.50-2.99	33	.	.	.	.	.	156
3.00-3.49	7	.	.	.	.	40
3.50-3.99	12	.	.	.	.	12
4.00-4.49	6	.	.	.	.	6
4.50-4.99	2	.	.	.	2
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	683	2381	2488	1615	419	27	6	0	0	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 4.9 MEAN TP(SEC)= 3.8 NO. OF CASES= 7131.

STATION H33 45.63N 82.52W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	510	732	8	1	.	.	.	.	.	.	1251
0.50-0.99	.	1865	1303	1	1	.	.	.	.	.	3170
1.00-1.49	.	.	1786	150	.	.	.	.	.	.	1946
1.50-1.99	.	.	85	1285	.	.	.	.	.	.	1380
2.00-2.49	.	.	.	257	188	.	.	.	.	.	445
2.50-2.99	.	.	.	4	135	.	.	.	.	.	139
3.00-3.49	35	13	.	.	.	.	48
3.50-3.99	9	.	.	.	.	9
4.00-4.49	3	.	.	.	.	3
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	510	2597	3192	1708	359	25	0	0	0	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 4.1 MEAN TP(SEC)= 3.9 NO. OF CASES= 7854.

STATION H33 45.63N 82.52W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	378	468	3	.	.	.	.	.	.	.	849
0.50-0.99	.	1461	913	.	.	.	.	.	.	.	2374
1.00-1.49	.	.	894	3	1	.	.	.	.	.	898
1.50-1.99	.	.	19	463	17	.	.	.	.	.	482
2.00-2.49	.	.	.	79	20	.	.	.	.	.	96
2.50-2.99	4	.	.	.	.	.	20
3.00-3.49	1	.	.	.	.	4
3.50-3.99	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	378	1829	1829	545	42	1	0	0	0	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 3.8 MEAN TP(SEC)= 3.6 NO. OF CASES= 4421.

STATION H33 45.63N 82.52W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

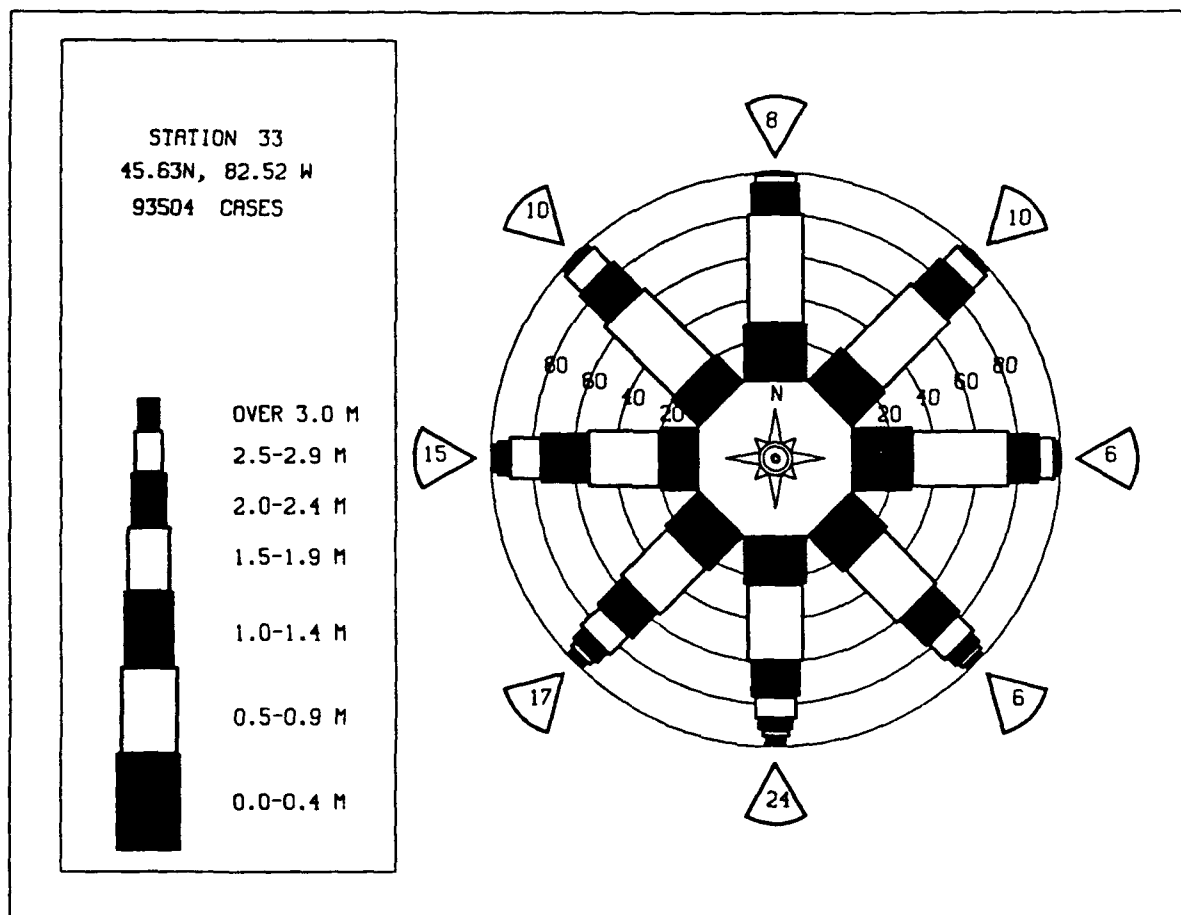
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	410	482	6	.	.	.	.	.	.	.	898
0.50-0.99	.	1410	595	.	.	.	.	.	.	.	2005
1.00-1.49	.	.	629	1	.	.	.	.	.	.	630
1.50-1.99	.	.	79	220	3	.	.	.	.	.	299
2.00-2.49	.	.	.	33	8	.	.	.	.	.	38
2.50-2.99	2	.	.	.	.	.	8
3.00-3.49	1	.	.	.	.	.	2
3.50-3.99	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	410	1892	1309	254	16	0	0	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 3.5 MEAN TP(SEC)= 3.4 NO. OF CASES= 3634.

STATION H33 45.63N 82.52W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	794	1075	274	105	17	1	1	.	.	.	2266
0.50-0.99	.	2031	1381	380	145	16	1	.	.	.	3954
1.00-1.49	.	.	1181	369	181	50	16	.	.	.	1787
1.50-1.99	.	.	85	778	172	57	12	.	.	.	1104
2.00-2.49	.	.	.	105	273	44	18	1	.	.	441
2.50-2.99	.	.	.	1	108	77	18	1	.	.	205
3.00-3.49	13	73	19	2	.	.	107
3.50-3.99	1	17	31	1	.	.	50
4.00-4.49	1	23	2	.	.	26
4.50-4.99	11	4	.	.	15
5.00-5.49	4	6	.	.	10
5.50-5.99	3	1	.	4
6.00-6.49	1	1	.	2
6.50-6.99	0
7.00+	1	.	1
TOTAL	794	3106	2921	1738	910	336	143	21	3	0	

MEAN HS(M)= 1.0 LARGEST HS(M)= 8.6 MEAN TP(SEC)= 4.1 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H33 (45.63N 82.52W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	0.8	1.0	1.1	1.1	1.2	0.9	0.7	0.8	0.9	1.3	1.4	1.0	1.0
1957	1.3	1.0	1.0	1.1	1.0	1.0	0.8	0.8	1.0	0.9	1.7	1.1	1.1
1958	1.0	0.9	0.8	1.0	1.3	1.4	0.9	1.2	1.6	1.4	1.7	1.2	1.2
1959	1.1	1.3	1.0	1.3	1.4	1.1	1.2	1.1	1.3	1.1	1.4	1.3	1.3
1960	1.0	1.0	0.8	1.2	1.1	0.8	0.8	0.8	0.9	1.0	1.5	1.3	1.0
1961	0.8	0.8	1.1	0.9	1.0	0.8	0.6	0.7	1.1	1.1	1.2	1.0	0.9
1962	1.2	0.9	0.7	1.1	0.9	0.9	0.7	0.9	1.1	1.1	1.1	1.1	1.1
1963	0.9	0.8	0.9	1.0	0.9	0.8	0.8	0.7	0.7	0.8	1.2	1.0	0.9
1964	1.5	1.1	1.3	1.6	1.3	1.1	1.1	1.2	1.1	1.2	1.1	1.1	1.1
1965	1.1	1.3	1.0	0.8	1.0	0.9	0.9	0.8	1.2	1.3	1.3	1.1	1.1
1966	1.1	1.3	1.1	1.1	1.1	0.8	0.8	0.9	1.1	1.1	1.1	1.1	1.0
1967	1.1	1.3	1.1	1.1	1.1	0.8	0.8	0.9	1.1	1.1	1.1	1.1	1.1
1968	1.1	1.3	1.1	1.1	1.1	0.8	0.8	0.9	1.1	1.1	1.1	1.1	1.1
1969	1.1	1.3	1.1	1.1	1.1	0.8	0.8	0.9	1.1	1.1	1.1	1.1	1.1
1970	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1971	1.1	1.1	1.1	1.1	1.1	0.8	0.8	0.9	1.1	1.1	1.1	1.1	1.1
1972	1.1	1.1	1.1	1.1	1.1	0.8	0.8	0.9	1.1	1.1	1.1	1.1	1.1
1973	1.1	1.1	1.1	1.1	1.1	0.8	0.8	0.9	1.1	1.1	1.1	1.1	1.1
1974	1.1	1.1	1.1	1.1	1.1	0.8	0.8	0.9	1.1	1.1	1.1	1.1	1.1
1975	1.1	1.1	1.1	1.1	1.1	0.8	0.8	0.9	1.1	1.1	1.1	1.1	1.1
1976	1.1	1.1	1.1	1.1	1.1	0.8	0.8	0.9	1.1	1.1	1.1	1.1	1.1
1977	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
1978	1.0	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1979	0.9	0.9	1.1	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
1980	1.1	0.7	1.0	0.8	0.7	0.7	0.6	0.7	1.0	0.8	0.8	0.8	0.8
1981	0.7	1.2	0.7	1.0	0.7	0.6	0.6	0.6	0.8	0.8	0.8	0.8	0.8
1982	1.2	0.8	1.2	1.0	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8	0.8
1983	1.0	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8
1984	0.9	0.8	1.0	0.9	0.8	0.8	0.6	0.5	1.0	0.8	0.8	0.8	0.8
1985	0.8	0.8	1.2	0.8	0.8	0.8	0.7	0.7	0.9	0.8	0.8	0.8	0.8
1986	0.9	0.7	1.1	1.0	0.7	0.8	0.6	0.7	0.8	0.8	1.1	0.8	0.8
1987	0.9	0.7	0.7	0.9	0.7	0.7	0.7	0.8	0.7	0.9	1.0	1.0	0.8
MEAN	1.1	1.0	1.0	1.0	0.9	0.8	0.8	0.8	1.0	1.1	1.2	1.1	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H33 (45.63N 82.52W)

YEAR	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.2	3.5	3.3	3.5	3.6	3.3	2.8	2.4	3.7	4.3	4.3	4.3	
1957	6.5	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1958	4.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1959	4.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1960	4.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1961	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1962	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1963	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1964	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1965	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1966	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1967	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1968	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1969	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1970	2.4	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1971	2.4	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1972	2.4	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1973	2.4	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1974	2.4	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1975	2.4	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1976	2.4	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1977	2.4	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1978	2.4	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1979	2.4	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1980	2.4	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1981	2.4	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1982	2.4	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1983	2.4	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1984	2.4	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1985	2.4	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1986	2.4	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	
1987	2.4	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.3	3.3	

32 YR. STATISTICS FOR WIS STATION H33

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	1.0
MEAN PEAK WAVE PERIOD	(SECONDS)	4.1
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	180.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.7
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.3
LARGEST WAVE HS	(METERS)	8.6
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	169.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		64041321

STATION H34 45.50N 82.32W AZIMUTH(DEGREES) = 0.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	339	713	19	1	1	.	.	.	.	.	1073
0.50-0.99	.	1096	308	53	2	2	.	.	.	.	1461
1.00-1.49	.	.	241	60	7	1	.	.	.	.	309
1.50-1.99	.	.	79	27	6	5	.	.	.	.	117
2.00-2.49	.	.	.	9	4	1	.	.	.	.	14
2.50-2.99	0
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	339	1809	647	150	20	9	0	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.4 MEAN TP(SEC)= 3.2 NO. OF CASES= 2787.

STATION H34 45.50N 82.32W AZIMUTH(DEGREES) = 22.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	295	560	18	1	2	1	.	.	.	.	874
0.50-0.99	.	978	326	21	2	1	.	.	.	.	1328
1.00-1.49	.	.	308	10	7	1	.	.	.	.	326
1.50-1.99	.	.	21	74	1	.	.	.	.	.	96
2.00-2.49	.	.	.	19	7	1	.	.	.	.	26
2.50-2.99	5	.	.	.	.	.	5
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	295	1538	673	125	21	3	0	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 2.6 MEAN TP(SEC)= 3.3 NO. OF CASES= 2488.

STATION H34 45.50N 82.32W AZIMUTH(DEGREES) = 45.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	421	671	13	13	2	1	.	.	.	.	1105
0.50-0.99	.	2751	1575	13	2	1	.	.	.	.	4342
1.00-1.49	.	.	1343	10	4	4	.	.	.	.	1361
1.50-1.99	.	.	44	488	2	2	.	.	.	.	536
2.00-2.49	.	.	.	70	24	1	.	.	.	.	95
2.50-2.99	19	.	.	.	.	.	19
3.00-3.49	6	.	.	.	.	.	6
3.50-3.99	1	.	.	.	.	1
4.00-4.49	0
4.50-4.99	1	.	.	.	.	1
5.00-5.49	2	.	.	.	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	421	3422	2975	581	57	9	3	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 5.1 MEAN TP(SEC)= 3.5 NO. OF CASES= 6992.

STATION H34 45.50N 82.32W AZIMUTH(DEGREES) = 67.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	303	402	5	1	.	.	.	.	.	.	711
0.50-0.99	.	973	520	9	.	.	.	.	.	.	1502
1.00-1.49	.	.	459	40	1	.	.	.	.	.	500
1.50-1.99	.	.	14	164	4	.	.	.	.	.	182
2.00-2.49	.	.	.	29	17	2	.	.	.	.	48
2.50-2.99	9	.	.	.	.	.	9
3.00-3.49	6	1	.	.	.	.	7
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	303	1375	996	243	37	3	0	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 3.3 MEAN TP(SEC)= 3.4 NO. OF CASES= 2775.

STATION H34 45.50N 82.32W AZIMUTH(DEGREES) = 90.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	337	406	9	16	.	.	.	.	.	.	752
0.50-0.99	.	783	493	143	4	.	.	.	.	.	1292
1.00-1.49	.	.	576	321	3	.	.	.	.	.	723
1.50-1.99	.	.	1	85	1	.	.	.	.	.	325
2.00-2.49	94	1	.	.	.	.	180
2.50-2.99	55	2	.	1	.	.	58
3.00-3.49	13	2	.	.	.	.	17
3.50-3.99	1	6	.	.	.	.	7
4.00-4.49	2	.	.	.	.	2
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	337	1189	1079	565	170	15	0	1	0	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.1 MEAN TP(SEC)= 3.7 NO. OF CASES= 3146.

STATION H34 45.50N 82.32W AZIMUTH(DEGREES) = 112.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	222	218	6	.	.	.	.	.	.	.	446
0.50-0.99	.	353	322	118	8	.	.	.	.	.	683
1.00-1.49	.	.	231	122	28	.	.	.	.	.	351
1.50-1.99	.	.	2	128	1	.	.	.	.	.	158
2.00-2.49	.	.	.	13	45	1	.	.	.	.	59
2.50-2.99	16	7	.	.	.	.	23
3.00-3.49	3	2	.	.	.	.	9
3.50-3.99	2	4	.	.	.	6
4.00-4.49	1	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	222	571	561	261	100	16	5	0	0	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.2 MEAN TP(SEC)= 3.7 NO. OF CASES= 1632.

STATION H34 45.50N 82.32W AZIMUTH(DEGREES) = 135.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	183	255	45	12	14	.	.	.	.	.	495
0.50-0.99	.	443	739	131	1	.	.	.	.	.	1327
1.00-1.49	.	.	254	328	57	1	.	.	.	.	640
1.50-1.99	.	.	4	243	216	10	1	.	.	.	474
2.00-2.49	.	.	.	4	185	20	1	.	.	.	210
2.50-2.99	35	69	1	.	.	.	105
3.00-3.49	63	4	.	.	.	67
3.50-3.99	3	27	.	.	.	30
4.00-4.49	13	.	.	.	13
4.50-4.99	5	.	.	.	5
5.00-5.49	3	.	.	3
5.50-5.99	3	.	.	3
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	183	698	1042	718	507	166	52	6	0	0	

MEAN HS(M) = 1.1 LARGEST HS(M)= 5.8 MEAN TP(SEC)= 4.4 NO. OF CASES= 3166.

STATION H34 45.50N 82.32W AZIMUTH(DEGREES) = 157.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	263	640	269	88	6	1	.	.	.	.	1267
0.50-0.99	.	766	925	516	136	13	1	.	.	.	2357
1.00-1.49	.	.	247	366	207	41	7	.	.	.	868
1.50-1.99	.	.	3	285	281	44	3	.	.	.	616
2.00-2.49	.	.	.	8	220	49	8	.	.	.	285
2.50-2.99	33	159	6	1	.	.	199
3.00-3.49	83	21	1	.	.	105
3.50-3.99	12	38	.	.	.	50
4.00-4.49	34	.	.	.	34
4.50-4.99	7	1	.	.	8
5.00-5.49	1	1	.	.	2
5.50-5.99	1	1	.	2
6.00-6.49	2	1	.	3
6.50-6.99	0
7.00+	2
TOTAL	263	1406	1444	1263	883	402	126	7	2	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 7.3 MEAN TP(SEC)= 4.5 NO. OF CASES= 5437.

STATION H34 45.50N 82.32W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 1.0 LARGEST HS(M)= 8.5 MEAN TP(SEC)= 4.9 NO. OF CASES= 11854.

STATION H34 45.50N 82.32W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 1.1 LARGEST HS(M)= 7.7 MEAN TP(SEC)= 4.9 NO. OF CASES= 12335.

STATION H34 45.50N 82.32W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

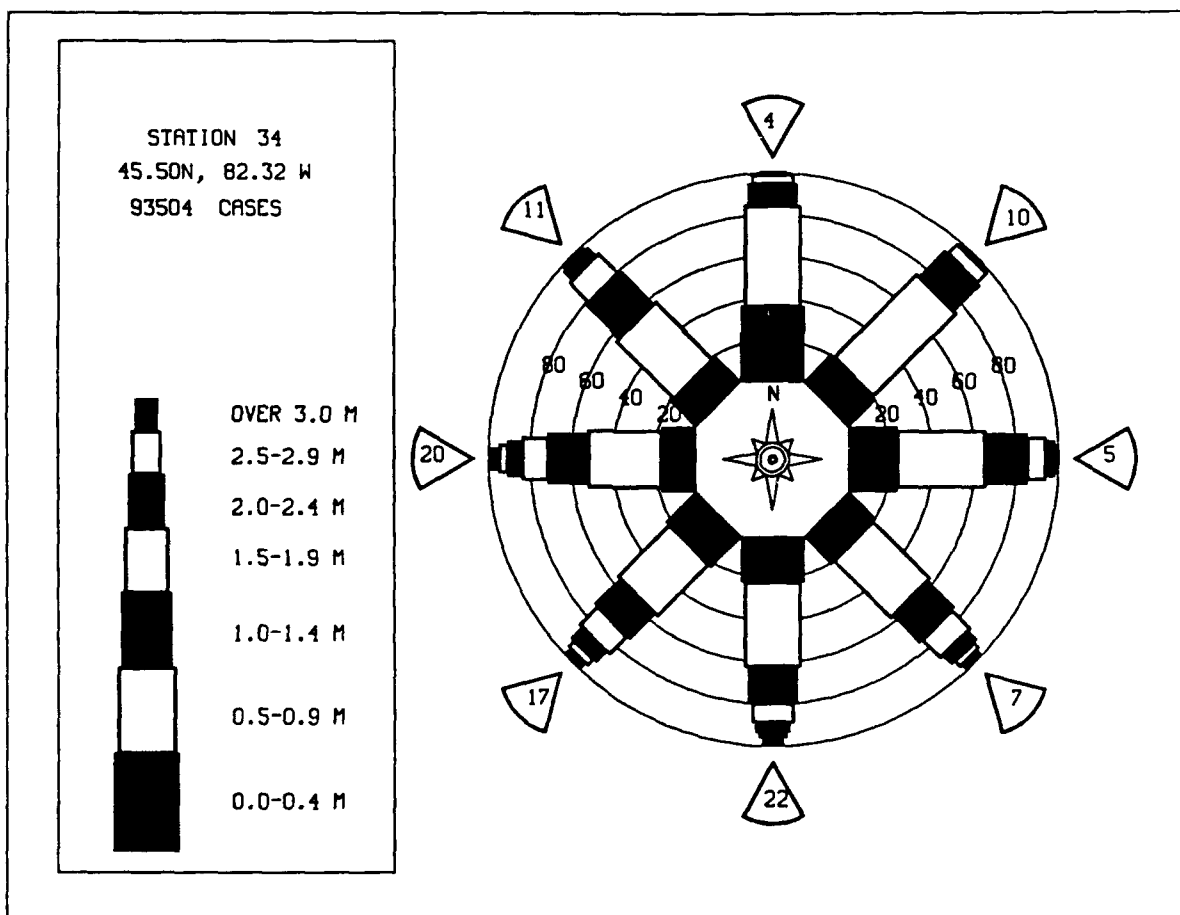
MEAN HS(M) = 1.1 LARGEST HS(M)= 6.7 MEAN TP(SEC)= 4.5 NO. OF CASES= 7544.

STATION H34 45.50N 82.32W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.7 MEAN TP(SEC)= 4.3 NO. OF CASES= 5309

STATION H34 45.50N 82.32W		AZIMUTH(DEGREES) = 337.5									
PERCENT OCCURRENCE(X1000) OF HEIGHT		AND PERIOD BY DIRECTION									
HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	201	343	6								550
0.50-0.99	.	501	265	22	1		.	.	.	.	789
1.00-1.49	.	.	163	90	1	1	.	.	.	.	253
1.50-1.99	.	.	36	143	3		.	.	.	.	183
2.00-2.49	.	.	.	7	31	.	.	.	.	.	38
2.50-2.99	.	.	.	1	14	.	.	.	.	.	14
3.00-3.49	2	3	.	.	.	.	2
3.50-3.99	2	.	.	.	.	2
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	201	844	472	263	52	6	0	0	0	0	1725
MEAN HS(M) = 0.8	LARGEST HS(M) = 3.7		MEAN TP(SEC) = 3.5		NO. OF CASES = 1725						

STATION H34 45.50N 82.32W FOR ALL DIRECTIONS										
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	470	1097	326	100	7	.	.	.	.	2000
0.50-0.99	.	1437	1698	705	179	8	.	.	.	4027
1.00-1.49	.	.	684	709	355	59	2	.	.	1809
1.50-1.99	.	.	24	599	340	91	12	.	.	1066
2.00-2.49	.	.	.	37	363	85	25	.	.	510
2.50-2.99	92	146	27	2	.	267
3.00-3.49	5	107	28	3	.	143
3.50-3.99	15	51	3	.	69
4.00-4.49	38	3	.	41
4.50-4.99	14	5	.	19
5.00-5.49	3	8	.	11
5.50-5.99	4	.	6
6.00-6.49	1	1	2
6.50-6.99	0
7.00+	0
TOTAL	470	2534	2732	2150	1341	511	200	29	3	0
MEAN HS(M)= 1.0 LARGEST HS(M)= 8.5 MEAN TP(SEC)= 4.4 TOTAL CASES= 93504.										



MEAN HS(METERS) BY MONTH AND YEAR

WIS STATION H34 (45.50N 82.32W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	0.9	1.2	1.2	1.3	1.3	1.0	0.8	0.8	0.9	1.4	1.5	1.2	1.1
1957	1.4	1.1	1.1	1.2	1.1	1.1	0.8	0.8	1.1	1.4	2.0	1.8	1.2
1958	1.1	1.1	0.6	1.1	1.1	1.6	0.8	1.3	1.6	1.6	2.0	1.4	1.3
1959	1.2	1.4	1.3	1.4	1.5	1.2	1.2	1.1	1.4	1.4	1.6	1.3	1.3
1960	1.2	1.2	0.8	1.2	1.0	0.8	0.8	0.8	0.8	1.0	1.7	1.4	1.4
1961	1.0	0.9	1.2	0.9	0.9	0.9	0.7	0.7	1.1	1.1	1.3	1.1	1.0
1962	1.4	0.9	0.7	1.0	0.9	0.7	0.7	0.9	1.2	0.8	1.1	1.1	1.0
1963	1.0	1.0	1.0	1.1	1.0	0.8	0.8	0.8	0.7	0.8	1.1	1.1	0.9
1964	1.6	1.2	1.5	1.6	1.4	1.1	0.7	1.2	1.1	1.1	1.3	1.2	1.2
1965	1.3	1.4	1.0	0.8	1.0	0.9	0.9	0.8	1.1	1.2	1.3	1.1	1.1
1966	1.1	1.0	1.3	1.1	1.1	1.0	0.9	0.8	1.0	1.1	1.1	0.9	1.0
1967	1.1	1.4	1.1	1.1	1.1	0.9	0.7	0.8	0.8	1.1	1.1	1.1	1.1
1968	1.0	1.1	1.1	1.1	1.1	0.9	0.9	0.8	1.0	1.1	1.1	1.1	1.1
1969	1.1	0.9	0.9	0.9	0.8	1.0	0.9	0.9	0.9	1.1	1.1	1.1	1.1
1970	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1971	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1972	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1973	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1974	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1975	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1976	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1977	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1978	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1979	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1980	1.3	0.7	1.1	0.9	0.8	0.8	0.6	0.7	1.0	1.0	1.1	1.1	1.1
1981	0.8	1.3	0.9	1.2	0.9	0.7	0.7	0.6	0.8	1.1	1.0	0.9	0.9
1982	1.4	0.9	1.3	1.2	0.6	0.6	0.8	0.8	0.8	1.1	1.1	1.3	1.0
1983	1.0	0.8	0.8	0.8	0.9	0.7	0.7	0.6	0.8	1.1	1.2	1.1	0.9
1984	1.0	0.9	1.1	0.9	1.0	0.8	0.7	0.5	1.0	0.9	1.3	1.4	1.0
1985	0.9	1.0	1.3	1.0	0.8	0.9	0.8	0.8	1.1	1.1	1.3	1.0	1.0
1986	1.0	0.7	1.1	1.0	0.8	0.8	0.7	0.7	0.8	0.8	1.2	1.1	0.9
1987	1.1	0.8	0.8	1.0	0.8	0.8	0.8	0.9	0.8	1.0	1.1	1.2	0.9
MEAN	1.2	1.0	1.1	1.1	1.0	0.9	0.8	0.8	1.0	1.1	1.3	1.2	

LARGEST HS(METERS) BY MONTH AND YEAR

WIS STATION H34 (45.50N 82.32W)

YEAR	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.4	5.4	5.1	5.6	5.2	5.1	3.1	3.7	4.0	4.5	6.1	6.7	
1957	3.4	3.3	3.2	3.4	3.3	3.3	3.1	3.3	3.3	3.3	3.3	3.3	
1958	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1959	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1960	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1961	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1962	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1963	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1964	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1965	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1966	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1967	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1968	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1969	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1970	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1971	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1972	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1973	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1974	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1975	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1976	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1977	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1978	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1979	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1980	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1981	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1982	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1983	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1984	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1985	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1986	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1987	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	

32 YR. STATISTICS FOR WIS STATION H34

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	1.0
MEAN PEAK WAVE PERIOD (SECONDS)	4.4
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	292.5
STANDARD DEVIATION OF WAVE HS (METERS)	0.8
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.4
LARGEST WAVE HS (METERS)	8.5
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	171.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	64041321

STATION H35 45.50N 82.12W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49											1072
0.50-0.99	408	641	22	1	.	.	.	.	.	.	1493
1.00-1.49		1319	161	13	.	.	.	.	.	.	1493
1.50-1.99	.	.	214	6	2	.	.	.	.	.	222
2.00-2.49	.	.	59	18	5	1	.	.	.	.	83
2.50-2.99	.	.	.	4	1	.	.	.	.	.	5
3.00-3.49	.	.	.	.	.	.	.	.	.	.	0
3.50-3.99	.	.	.	.	.	.	.	.	.	.	0
4.00-4.49	.	.	.	.	.	.	.	.	.	.	0
4.50-4.99	.	.	.	.	.	.	.	.	.	.	0
5.00-5.49	.	.	.	.	.	.	.	.	.	.	0
5.50-5.99	.	.	.	.	.	.	.	.	.	.	0
6.00-6.49	.	.	.	.	.	.	.	.	.	.	0
6.50-6.99	.	.	.	.	.	.	.	.	.	.	0
7.00+	.	.	.	.	.	.	.	.	.	.	0
TOTAL	408	1960	456	42	8	1	0	0	0	0	
MEAN HS(M) = 0.6	LARGEST HS(M)= 2.2		MEAN TP(SEC)= 3.1		NO. OF CASES= 2695.						

STATION H35 45.50N 82.12W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	289	405	10								704
0.50-0.99		1013	268	4							1285
1.00-1.49			255		1						257
1.50-1.99			22	78		1					101
2.00-2.49				22	5						27
2.50-2.99					3						3
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	289	1418	555	104	9	2	0	0	0	0	2228
MEAN HS (M) = 0.7	LARGEST HS (M) = 2.9		MEAN TP (SEC) = 3.2		NO. OF CASES =						

STATION H35 45.50N 82.12W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	560	577	11	.	.	.	.	.	.	.	1148
0.50-0.99	.	3426	1821	.	1	1	.	.	.	.	5249
1.00-1.49	.	.	1389	.	2	.	.	.	.	.	1391
1.50-1.99	5	2	.	.	.	524
2.00-2.49	.	.	17	500	17	.	1	.	.	.	82
2.50-2.99	.	.	.	74	17	.	.	.	.	.	17
3.00-3.49	6	.	.	.	.	.	6
3.50-3.99	1	.	.	.	.	1
4.00-4.49	1	.	.	.	.	1
4.50-4.99	2	.	.	.	.	2
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	560	4003	3238	574	43	10	3	0	0	0	7889
MEAN HS(M) = 0.8 LARGEST HS(M) = 4.8 MEAN TP(SEC) = 3.5 NO. OF CASES = 7889.											

STATION H35 45.50N 82.12W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	276	289	4								569
0.50-0.99		647	160	4	1						812
1.00-1.49			165	12	2						179
1.50-1.99			27	39							66
2.00-2.49				11				1			13
2.50-2.99											0
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	276	936	356	66	4	0	0	1	0	0	
MEAN HS(M) = 0.6	LARGEST HS(M) = 2.4		MEAN TP(SEC) = 3.1		NO. OF CASES = 1539.						

STATION H35 45.50N 82.12W AZIMUTH(DEGREES) = 90.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	486	531	6	1	.	.	.	.	.	.	1023
0.50-0.99	.	1452	346	2	.	.	.	.	.	.	1799
1.00-1.49	.	.	324	108	.	1	1	.	.	.	326
1.50-1.99	.	.	146	53	.	.	.	.	.	.	256
2.00-2.49	.	.	.	6	6	.	.	.	.	.	53
2.50-2.99	2	.	.	.	.	.	12
3.00-3.49	2
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	486	1983	822	170	8	1	1	0	0	0	3250

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.3 MEAN TP(SEC)= 3.2 NO. OF CASES= 3250.

STATION H35 45.50N 82.12W AZIMUTH(DEGREES) = 112.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	171	147	2	.	.	.	.	.	.	.	320
0.50-0.99	.	305	122	.	.	.	.	.	.	.	427
1.00-1.49	.	.	87	19	.	.	.	.	.	.	106
1.50-1.99	.	.	14	41	.	.	.	.	.	.	55
2.00-2.49	.	.	.	6	16	.	.	.	.	.	22
2.50-2.99	8	.	.	.	.	.	8
3.00-3.49	2	3	.	.	.	.	5
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	171	452	225	66	26	3	0	0	0	0	888

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.2 MEAN TP(SEC)= 3.3 NO. OF CASES= 888.

STATION H35 45.50N 82.12W AZIMUTH(DEGREES) = 135.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	235	218	33	6	.	.	.	.	.	.	492
0.50-0.99	.	666	363	25	9	.	.	.	.	.	1063
1.00-1.49	.	.	262	47	23	5	.	.	.	.	337
1.50-1.99	.	.	9	93	10	6	1	.	.	.	119
2.00-2.49	.	.	.	18	11	6	1	.	.	.	36
2.50-2.99	10	.	.	.	.	.	11
3.00-3.49	2	1	1	.	.	.	3
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	235	884	667	189	65	18	3	0	0	0	1935

MEAN HS(M) = 0.8 LARGEST HS(M)= 3.1 MEAN TP(SEC)= 3.5 NO. OF CASES= 1935.

STATION H35 45.50N 82.12W AZIMUTH(DEGREES) = 157.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	272	488	276	90	8	.	1	.	.	.	1134
0.50-0.99	.	878	1069	360	105	6	1	.	.	.	2419
1.00-1.49	.	1	623	372	161	19	4	.	.	.	1180
1.50-1.99	.	.	6	489	285	24	2	.	.	.	806
2.00-2.49	.	.	.	54	254	82	5	.	.	.	395
2.50-2.99	82	88	1	.	.	.	171
3.00-3.49	23	29	23	1	.	.	76
3.50-3.99	17	13	1	.	.	30
4.00-4.49	5	5	1	.	.	11
4.50-4.99	2	1	.	.	3
5.00-5.49	0
5.50-5.99	2	.	2
6.00-6.49	1	.	.	1
6.50-6.99	0
7.00+	1	.	1
TOTAL	272	1367	1974	1365	918	270	56	4	3	0	5841

MEAN HS(M) = 1.0 LARGEST HS(M)= 7.4 MEAN TP(SEC)= 4.4 NO. OF CASES= 5841.

STATION H35 45.50N 82.12W AZIMUTH(DEGREES) = 180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	335	747	854	455	78	2	1	.	.	.	2472
0.50-0.99	.	1024	1540	1859	697	32	2	.	.	.	5154
1.00-1.49	.	1	385	593	799	188	8	.	.	.	1974
1.50-1.99	.	.	8	437	293	239	42	1	.	.	1020
2.00-2.49	.	.	.	18	348	103	65	.	.	.	534
2.50-2.99	85	162	59	3	.	.	309
3.00-3.49	5	105	48	7	3	.	167
3.50-3.99	21	84	.	.	.	115
4.00-4.49	47	8	.	.	55
4.50-4.99	23	25	1	1	50
5.00-5.49	1	17	3	1	22
5.50-5.99	12	8	1	21
6.00-6.49	5	.	5
6.50-6.99	4	.	4
7.00+	2	3	5
TOTAL	335	1772	2787	3362	2305	852	380	82	26	6	
MEAN BS(M) = 1.0	LARGEST BS(M)=		8.7	MEAN TP(SEC)=		4.9	NO. OF CASES=		11154.		

STATION H35 45.50N 82.12W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL	
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER		
0.00-0.49	314	1089	765	272	35	8					2483	
0.50-0.99	.	981	1551	1664	628	36		.	.	.	4870	
1.00-1.49	.	1	355	733	1078	264	11	.	.	.	2442	
1.50-1.99	.	.	10	518	500	349	83	.	.	.	1460	
2.00-2.49	.	.	.	12	453	210	140	2	.	.	817	
2.50-2.99	70	265	125	11	.	.	471	
3.00-3.49	3	155	77	22	.	.	257	
3.50-3.99	21	128	17	.	.	171	
4.00-4.49	1	100	13	6	1	121	
4.50-4.99	25	23	1	.	49	
5.00-5.49	9	31	9	1	50	
5.50-5.99	13	7	.	20	
6.00-6.49	3	10	.	13	
6.50-6.99	4	1	5	
7.00+	1	2	3	
TOTAL	314	2081	2681	3199	2767	1309	698	135	43	5		
MEAN HS (M) = 1.2	LARGEST HS (M) = 7.3										MEAN TP (SEC) = 5.0	NO. OF CASES = 12395.

STATION H35 45.50N 82.12W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	295	1003	180	49	8	1					1536
0.50-0.99		1038	1794	541	187	20	2	.	.	.	3582
1.00-1.49			468	894	407	89	5	.	.	.	1863
1.50-1.99				593	618	156	35	1	.	.	1407
2.00-2.49			4	22	511	189	51	1	.	.	774
2.50-2.99					106	271	57	6	.	.	440
3.00-3.49						173	52	12	1	.	238
3.50-3.99						21	89	4	.	.	114
4.00-4.49							68	2	.	.	70
4.50-4.99							32	10	1	.	43
5.00-5.49							2	18	1	.	21
5.50-5.99								18	3	1	12
6.00-6.49								6	1	.	7
6.50-6.99										.	0
7.00+										1	2
TOTAL	295	2041	2446	2099	1837	920	393	68	8	2	
MEAN HS(M) = 1.2	LARGEST HS(M)= 7.1		MEAN TP(SEC)= 4.8		NO. OF CASES= 9469.						

STATION H35 45.50N 82.12W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	252	787	94	5	2						1140
0.50-0.99	.	793	1320	370	54	12	.	.	.	.	2549
1.00-1.49	.	.	352	674	223	37	7	.	.	.	1293
1.50-1.99	.	.	.	315	364	55	9	.	.	.	745
2.00-2.49	.	.	2	8	254	112	12	.	.	.	386
2.50-2.99	51	146	21	1	.	.	219
3.00-3.49	83	34	4	.	.	121
3.50-3.99	11	42	.	.	.	53
4.00-4.49	36	.	.	.	36
4.50-4.99	18	.	1	.	24
5.00-5.49	3	11	.	.	14
5.50-5.99	3	1	.	4
6.00-6.49	1	.	.	1
6.50-6.99	0
7.00+	1	.	1
TOTAL	252	1580	1768	1372	948	456	182	25	3	0	
MEAN HS(M) = 1.1	LARGEST HS(M) = 7.0		MEAN TP(SEC) = 4.5		NO. OF CASES = 6175.						

STATION H35 45.50N 82.12W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	295	991	405	66	1	.	.	.	.	.	1758
0.50-0.99	.	1004	2053	1168	129	2	.	.	.	.	4354
1.00-1.49	.	.	484	1278	807	28	4	.	.	.	2601
1.50-1.99	.	.	7	489	731	172	8	.	.	.	1407
2.00-2.49	.	.	.	14	442	293	18	1	.	.	768
2.50-2.99	74	297	71	2	.	.	444
3.00-3.49	1	188	105	3	.	.	297
3.50-3.99	17	137	3	1	.	158
4.00-4.49	72	3	.	.	75
4.50-4.99	32	25	1	.	58
5.00-5.49	3	22	1	.	26
5.50-5.99	13	1	.	18
6.00-6.49	3	2	.	6
6.50-6.99	2	.	4
7.00+	2
TOTAL	295	1995	2949	3013	2185	997	450	75	17	0	

MEAN HS(M) = 1.2 LARGEST HS(M)= 7.3 MEAN TP(SEC)= 4.8 NO. OF CASES= 11216.

STATION H35 45.50N 82.12W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	180	834	455	159	8	.	.	.	.	.	1636
0.50-0.99	.	1692	2017	1159	380	6	.	.	.	.	5234
1.00-1.49	.	.	652	1873	784	68	1	.	.	.	3378
1.50-1.99	.	.	41	514	748	156	3	.	.	.	1482
2.00-2.49	.	.	.	11	555	181	18	.	.	.	782
2.50-2.99	64	196	45	.	.	.	305
3.00-3.49	71	72	3	.	.	146
3.50-3.99	10	40	2	.	.	52
4.00-4.49	1	16	4	.	.	21
4.50-4.99	6	5	.	.	11
5.00-5.49	1	3	.	.	4
5.50-5.99	1	.	.	1
6.00-6.49	1	.	1
6.50-6.99	1	.	1
7.00+	1
TOTAL	180	2526	3165	3716	2539	689	202	18	3	0	

MEAN HS(M) = 1.1 LARGEST HS(M)= 7.3 MEAN TP(SEC)= 4.7 NO. OF CASES= 12208.

STATION H35 45.50N 82.12W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	221	377	66	12	.	.	.	.	.	.	676
0.50-0.99	.	1366	610	82	29	4	.	.	.	.	2091
1.00-1.49	.	.	274	174	18	10	.	.	.	.	476
1.50-1.99	.	.	31	133	104	8	2	.	.	.	278
2.00-2.49	.	.	.	12	44	1	.	.	.	.	57
2.50-2.99	4	16	1	.	.	.	21
3.00-3.49	5	.	.	.	.	5
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	221	1743	981	413	199	44	3	0	0	0	

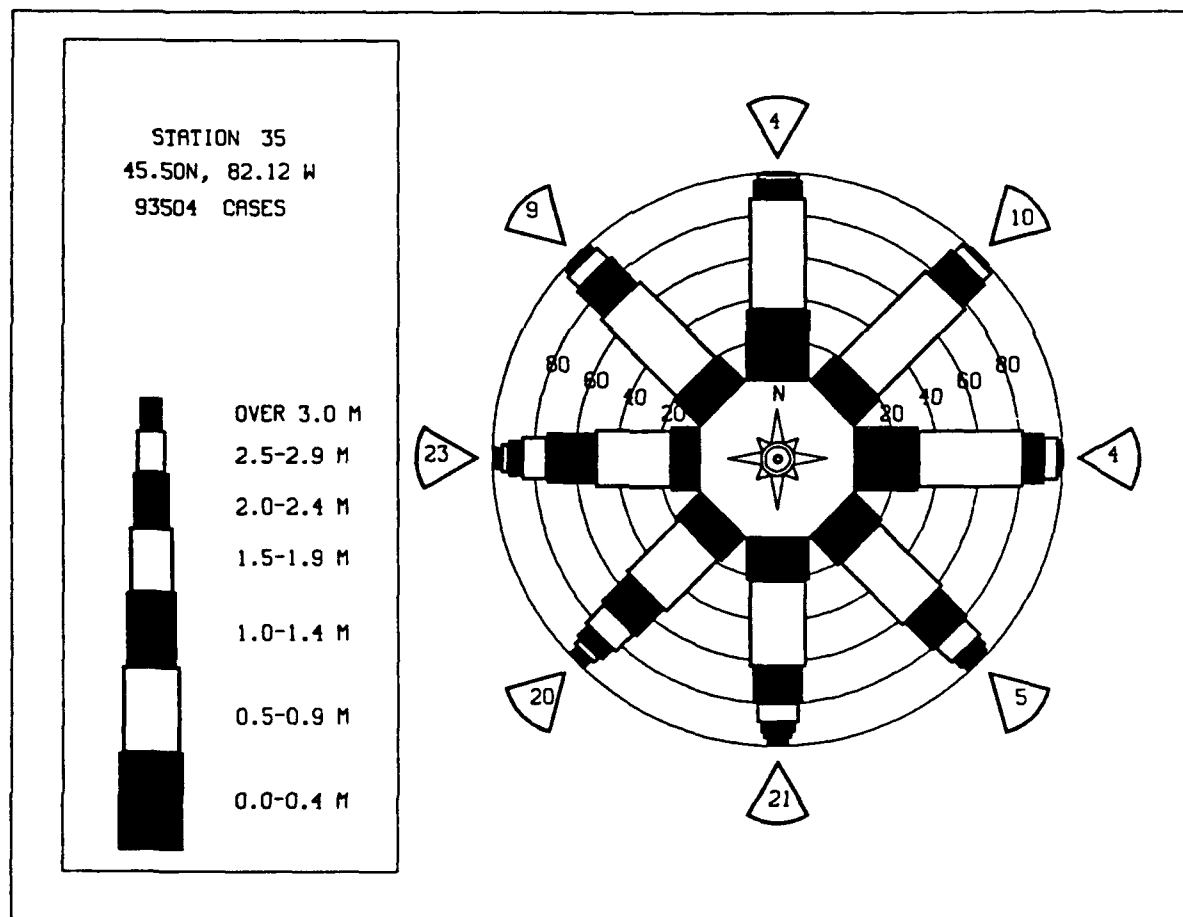
MEAN HS(M) = 0.8 LARGEST HS(M)= 3.2 MEAN TP(SEC)= 3.7 NO. OF CASES= 3381.

STATION H35 45.50N 82.12W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	187	308	2	1	.	.	.	.	.	.	498
0.50-0.99	.	552	104	6	.	.	.	.	.	.	660
1.00-1.49	.	.	93	6	.	.	.	.	.	.	99
1.50-1.99	.	.	18	26	6	.	.	.	.	.	51
2.00-2.49	.	.	.	6	4	1	.	.	.	.	11
2.50-2.99	2	1	.	.	.	.	3
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	187	860	218	43	12	2	0	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.7 MEAN TP(SEC)= 3.1 NO. OF CASES= 1241.

STATION H35 45.50N 82.12W FOR ALL DIRECTIONS										
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LO+ER
0.00-0.49	478	943	319	112	14	1	.	.	.	1867
0.50-0.99	.	1817	1530	725	222	12	.	.	.	4306
1.00-1.49	.	.	638	668	431	71	4	.	.	1812
1.50-1.99	.	.	42	439	366	117	19	.	.	983
2.00-2.49	.	.	.	35	292	118	31	.	.	476
2.50-2.99	58	144	38	2	.	242
3.00-3.49	4	81	41	5	.	131
3.50-3.99	12	53	3	.	68
4.00-4.49	34	3	.	37
4.50-4.99	14	9	.	23
5.00-5.49	2	10	1	13
5.50-5.99	5	2	7
6.00-6.49	1	2	3
6.50-6.99	1	1
7.00+	0
TOTAL	478	2760	2529	1979	1387	556	236	38	6	0
MEAN HS(M)=	1.0	LARGEST HS(M)=	8.7	MEAN TP(SEC)=	4.4	TOTAL CASES=	93504.			



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H35 (45.50N 82.12W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.8	1.2	1.2	1.2	1.3	1.0	0.7	0.8	0.9	1.4	1.5	1.2	1.1
1957	1.4	1.1	1.1	1.1	1.1	1.1	0.9	0.8	1.0	1.0	2.0	1.4	1.3
1958	1.1	1.0	0.6	1.1	1.3	1.3	0.9	1.0	1.6	1.6	2.0	1.4	1.3
1959	1.2	1.4	1.3	1.3	1.5	1.1	1.2	1.0	0.6	1.4	1.6	1.4	1.1
1960	1.1	1.1	0.8	1.2	1.0	0.8	0.8	0.6	0.7	1.1	1.2	1.2	1.1
1961	0.9	0.8	0.7	0.8	0.9	0.9	0.9	0.9	1.2	0.9	1.1	1.1	1.0
1962	1.4	0.8	1.0	1.1	1.0	0.8	0.8	0.8	0.8	0.9	1.3	1.1	1.0
1963	1.1	1.0	1.0	1.6	1.4	1.1	0.7	1.2	1.0	1.2	1.2	1.2	1.1
1964	1.2	1.4	0.9	0.8	1.0	0.8	0.9	0.8	1.1	1.2	1.3	1.1	1.1
1965	1.1	1.0	1.2	1.0	1.1	0.8	0.9	0.8	0.9	1.6	1.2	1.0	1.1
1966	1.4	1.4	1.0	1.1	1.0	0.7	0.8	0.8	0.9	1.4	1.1	1.3	1.1
1967	1.0	1.0	1.1	1.4	0.9	0.9	1.1	0.8	0.9	1.2	1.0	1.3	1.1
1968	1.1	0.7	0.9	0.9	0.8	1.0	0.7	0.9	0.9	1.1	1.1	1.0	0.9
1969	0.9	1.2	0.8	1.1	1.1	0.8	0.7	0.8	1.0	1.1	1.1	1.1	1.0
1970	1.3	1.4	1.1	1.0	1.0	0.6	1.0	0.8	0.8	1.0	1.2	1.4	1.0
1971	1.7	0.9	1.1	0.8	0.6	0.7	0.7	0.7	0.9	1.1	0.9	1.0	0.9
1972	1.3	0.8	0.9	1.1	1.0	0.7	0.8	0.7	0.8	0.9	1.2	1.1	0.9
1973	1.3	0.9	1.2	0.9	1.0	0.8	0.8	0.9	1.0	1.1	0.9	0.9	1.1
1974	1.3	0.9	1.2	0.9	1.0	0.8	0.8	0.9	1.0	1.1	0.9	0.9	1.1
1975	1.3	0.9	0.9	0.9	0.9	0.7	0.8	0.9	0.9	1.1	1.2	1.1	1.1
1976	1.2	1.2	1.3	1.0	0.9	0.7	0.8	0.7	0.9	0.9	1.1	1.1	1.0
1977	1.0	1.2	1.0	0.9	0.8	0.7	0.9	0.9	1.0	1.0	1.2	1.4	1.1
1978	1.0	0.7	0.9	1.0	0.9	0.9	0.9	1.2	1.0	1.4	1.1	1.1	1.0
1979	1.0	0.9	1.0	1.0	0.9	1.1	0.7	0.8	0.9	0.9	1.1	1.3	1.1
1980	1.3	0.8	1.0	0.9	0.8	0.8	0.6	0.7	1.1	1.0	1.1	1.1	1.0
1981	0.8	1.3	0.9	1.2	0.7	0.7	0.6	0.6	0.8	1.0	0.9	1.0	0.9
1982	1.4	0.9	1.3	1.2	0.6	0.6	0.8	0.8	0.8	1.1	1.1	1.4	1.1
1983	1.0	0.8	0.7	0.9	0.9	0.7	0.7	0.6	0.9	1.2	1.4	1.1	1.0
1984	1.0	0.9	1.1	0.9	1.0	0.8	0.7	0.6	1.1	0.9	1.4	1.4	1.0
1985	0.9	0.9	1.2	1.0	0.9	0.8	0.8	0.8	1.0	1.1	1.3	1.0	0.9
1986	1.1	0.7	1.1	0.9	0.8	0.9	0.7	0.7	0.8	0.9	1.2	1.1	0.9
1987	1.0	0.7	0.7	0.9	0.8	0.7	0.8	0.8	0.7	0.9	1.0	1.1	0.9
MEAN	1.2	1.0	1.0	1.0	1.0	0.9	0.8	0.8	1.0	1.1	1.3	1.2	

LARGEST HS(METERS) BY MONTH AND YEAR

WIS STATION H35 (45.50N 82.12W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.3	5.5	4.8	5.4	5.4	5.3	2.9	3.8	4.2	4.8	6.5	6.8	
1957	6.9	4.1	5.2	4.3	4.3	4.3	2.2	2.8	3.7	4.1	6.3	7.6	
1958	4.8	3.8	2.8	6.0	7.3	7.0	3.8	4.5	5.9	5.7	6.8	5.0	
1959	5.2	3.8	6.6	4.7	5.0	3.7	4.3	3.8	6.0	7.2	5.9	6.6	
1960	4.6	3.4	2.7	4.9	5.5	2.5	3.8	2.8	2.9	4.4	5.6	5.3	
1961	4.4	4.0	5.2	3.2	4.0	3.4	3.1	5.0	3.8	5.5	6.9	5.1	
1962	5.1	2.9	3.7	3.7	3.7	3.8	3.3	2.9	4.2	4.9	5.4	4.4	
1963	3.6	3.7	4.3	4.8	3.2	3.2	2.6	2.7	2.4	3.2	7.0	4.6	
1964	5.5	3.4	6.2	8.7	5.7	4.2	2.4	3.1	4.3	4.1	4.2	5.0	
1965	5.5	5.0	5.8	2.9	3.4	3.4	2.7	2.0	3.3	3.5	5.1	3.8	
1966	5.5	4.4	4.7	3.8	4.8	2.6	2.5	3.0	3.0	6.2	3.5	3.6	
1967	6.6	3.4	4.4	3.4	4.1	2.1	2.8	2.7	2.8	7.1	3.5	3.3	
1968	3.4	3.3	5.2	4.1	3.3	2.2	3.3	2.9	2.9	4.2	3.0	4.0	
1969	3.8	2.9	2.5	2.1	2.7	2.4	1.9	3.2	3.0	4.2	4.4	3.0	
1970	3.2	4.1	3.0	2.9	3.6	3.3	2.1	2.9	4.3	3.1	5.0	5.0	
1971	4.4	6.4	4.0	3.0	4.6	1.4	4.7	2.5	2.8	6.1	5.8	5.7	
1972	5.9	2.3	3.9	3.5	2.6	2.0	2.4	1.9	2.8	4.1	3.0	3.3	
1973	3.6	2.1	3.2	4.5	2.9	2.0	2.2	1.9	3.2	2.9	3.6	3.1	
1974	7.3	5.8	3.5	2.5	3.2	3.1	3.0	2.8	3.2	3.2	3.5	3.3	
1975	7.2	4.7	2.4	4.4	3.2	3.3	3.0	2.4	3.2	4.0	6.1	4.0	
1976	5.1	3.6	4.6	3.6	3.5	2.5	2.3	2.2	4.6	3.7	2.8	4.5	
1977	3.4	3.7	3.4	3.6	2.8	2.8	2.4	2.5	4.1	3.7	5.0	4.5	
1978	3.0	2.5	3.8	2.9	3.8	3.0	3.3	3.5	3.2	4.3	5.6	3.4	
1979	3.1	3.1	4.3	3.4	3.7	3.3	2.6	2.4	2.7	3.7	6.3	4.8	
1980	6.4	4.2	3.9	3.2	3.9	2.2	1.3	2.4	3.1	4.0	3.3	4.4	
1981	2.8	4.2	3.4	4.5	2.6	3.2	1.6	2.1	3.1	4.7	3.7	4.4	
1982	6.4	2.2	5.0	3.3	3.3	1.8	3.4	2.2	2.1	2.7	5.0	5.5	
1983	4.8	3.3	2.4	3.3	3.3	2.4	2.2	2.9	3.8	4.3	3.3	3.8	
1984	4.7	2.6	4.1	5.1	5.5	3.2	3.3	1.8	4.4	3.9	4.8	3.3	
1985	2.7	2.9	4.4	3.5	3.5	3.2	3.3	3.3	4.4	3.5	3.8	3.8	
1986	3.5	2.2	4.8	3.6	2.6	3.0	2.8	3.6	3.0	4.1	4.1	3.3	
1987	3.3	2.8	4.1	3.1	3.4	2.3	2.5	3.0	2.3	3.4	5.2	4.0	

32 YR. STATISTICS FOR WIS STATION H35

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	1.0
MEAN PEAK WAVE PERIOD	(SECONDS)	4.4
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	202.5
STANDARD DEVIATION OF WAVE HS	(METERS)	0.8
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.5
LARGEST WAVE HS	(METERS)	8.7
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	178.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		64041321

STATION H36 45.35N 81.93W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	339	665	42	3							1049
0.50-0.99		1167	325	29	12						1533
1.00-1.49			201	37	16	4					258
1.50-1.99			45	19	7	4					75
2.00-2.49					3						3
2.50-2.99						1					1
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	339	1832	613	88	38	9	0	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M) = 2.5 MEAN TP(SEC) = 3.2 NO. OF CASES = 2736.

STATION H36 45.35N 81.93W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	297	430	34								761
0.50-0.99		1001	347	13	1	1					1363
1.00-1.49			239	13	3	3					258
1.50-1.99			18	51	1	1					71
2.00-2.49				6							6
2.50-2.99					1						1
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	297	1431	638	83	6	5	0	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M) = 2.8 MEAN TP(SEC) = 3.2 NO. OF CASES = 2306.

STATION H36 45.35N 81.93W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	568	628	26	4							1226
0.50-0.99		3520	1881	6	4	2					5413
1.00-1.49			1260	2	3	7					1272
1.50-1.99				428	3	3	3				443
2.00-2.49				64	10	1	1				76
2.50-2.99					10						10
3.00-3.49											0
3.50-3.99					1	1					2
4.00-4.49						1					1
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	568	4148	3176	504	28	15	4	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M) = 4.0 MEAN TP(SEC) = 3.4 NO. OF CASES = 7904.

STATION H36 45.35N 81.93W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	309	343	11	1							664
0.50-0.99		711	168	3							882
1.00-1.49			161	1	1						163
1.50-1.99			33	32	1						66
2.00-2.49				9	3						12
2.50-2.99					1						1
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	309	1054	373	46	7	0	0	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M) = 3.2 MEAN TP(SEC) = 3.1 NO. OF CASES = 1677.

STATION H36 45.35N 81.93W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	536	559	10	1	1	.	.	.	.	.	1106
0.50-0.99	.	1435	346	.	1	.	.	.	.	.	1782
1.00-1.49	.	.	347	.	.	.	.	.	.	.	347
1.50-1.99	.	.	117	102	.	.	.	.	.	.	219
2.00-2.49	.	.	.	44	.	.	3	.	.	.	47
2.50-2.99	.	.	.	1	7	.	.	.	.	.	8
3.00-3.49	2	.	.	.	.	.	2
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	536	1994	820	148	10	0	3	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.2 MEAN TP(SEC)= 3.2 NO. OF CASES= 3289.

STATION H36 45.35N 81.93W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	221	173	.	.	.	.	.	.	.	.	394
0.50-0.99	.	438	89	.	.	.	.	.	.	.	527
1.00-1.49	.	.	88	.	.	.	.	.	.	.	88
1.50-1.99	.	.	21	17	1	.	.	.	.	.	39
2.00-2.49	.	.	.	9	.	2	.	.	.	.	11
2.50-2.99	.	.	.	1	.	.	.	.	.	.	1
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	221	611	198	27	1	2	0	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.5 MEAN TP(SEC)= 3.0 NO. OF CASES= 995.

STATION H36 45.35N 81.93W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	299	251	21	2	.	.	.	.	.	.	573
0.50-0.99	.	732	233	13	6	.	.	.	.	.	984
1.00-1.49	.	.	196	6	7	2	.	.	.	.	211
1.50-1.99	.	.	18	47	7	5	2	.	.	.	79
2.00-2.49	.	.	.	7	7	.	.	.	.	.	14
2.50-2.99	1	.	.	.	.	.	1
3.00-3.49	1	.	.	.	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	299	983	468	75	28	7	3	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.3 MEAN TP(SEC)= 3.2 NO. OF CASES= 1749.

STATION H36 45.35N 81.93W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	286	490	164	37	3	.	.	.	.	.	980
0.50-0.99	.	1235	695	336	37	.	.	.	.	.	2303
1.00-1.49	.	.	308	518	95	4	.	.	.	.	925
1.50-1.99	.	.	54	202	257	12	1	.	.	.	526
2.00-2.49	.	.	.	35	120	36	1	.	.	.	192
2.50-2.99	.	.	.	4	14	44	1	.	.	.	63
3.00-3.49	3	7	4	.	.	.	14
3.50-3.99	4	2	.	.	.	6
4.00-4.49	0
4.50-4.99	1	.	.	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	286	1725	1221	1132	529	107	10	0	0	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.6 MEAN TP(SEC)= 4.1 NO. OF CASES= 4697.

STATION H36 45.35N 81.93W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	383	840	660	219	31	3	.	.	.	.	2136
0.50-0.99	.	991	1494	1535	512	18	2	.	.	.	4552
1.00-1.49	.	.	403	869	807	149	18	.	.	.	2046
1.50-1.99	.	.	8	426	406	245	34	1	.	.	1120
2.00-2.49	.	.	.	16	302	154	102	1	.	.	575
2.50-2.99	65	155	91	6	.	.	317
3.00-3.49	4	86	63	21	.	.	174
3.50-3.99	8	68	16	3	.	95
4.00-4.49	1	39	10	3	.	53
4.50-4.99	19	25	2	.	46
5.00-5.49	3	12	4	1	20
5.50-5.99	2	7	5	1	14
6.00-6.49	1	2	1	5
6.50-6.99	2	1	3
7.00+	1	1
TOTAL	383	1831	2565	2865	2127	819	441	100	23	8	

MEAN HS(M) = 1.1 LARGEST HS(M)= 9.2 MEAN TP(SEC)= 4.8 NO. OF CASES= 10457.

STATION H36 45.35N 81.93W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	330	1167	628	212	42	1	.	.	.	.	2380
0.50-0.99	.	914	1567	1638	499	34	1	.	.	.	4653
1.00-1.49	.	1	340	740	1119	206	12	.	.	.	2418
1.50-1.99	.	.	3	403	510	503	57	.	.	.	1476
2.00-2.49	.	.	.	7	348	273	160	1	.	.	789
2.50-2.99	70	224	144	6	.	.	444
3.00-3.49	3	129	99	28	2	.	261
3.50-3.99	14	126	14	4	.	158
4.00-4.49	1	77	14	5	.	97
4.50-4.99	24	25	5	.	54
5.00-5.49	3	20	7	.	30
5.50-5.99	7	10	1	18
6.00-6.49	3	6	1	10
6.50-6.99	3	1	3
7.00+	1	1
TOTAL	330	2082	2538	3000	2591	1385	703	118	42	3	

MEAN HS(M) = 1.1 LARGEST HS(M)= 7.6 MEAN TP(SEC)= 5.0 NO. OF CASES= 11985.

STATION H36 45.35N 81.93W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	297	1025	258	55	8	1	1	.	.	.	1645
0.50-0.99	.	936	1768	701	202	14	1	.	.	.	3622
1.00-1.49	.	.	412	898	500	114	8	.	.	.	1932
1.50-1.99	.	.	3	647	663	201	43	.	.	.	1557
2.00-2.49	.	.	.	14	515	253	97	3	.	.	882
2.50-2.99	108	324	113	7	.	.	552
3.00-3.49	1	174	102	9	1	.	287
3.50-3.99	18	142	7	.	.	167
4.00-4.49	93	10	3	.	106
4.50-4.99	22	25	2	.	49
5.00-5.49	2	32	1	1	36
5.50-5.99	13	10	1	24
6.00-6.49	1	3	.	4
6.50-6.99	4	2	6
7.00+	0
TOTAL	297	1961	2441	2315	1997	1099	624	107	24	4	

MEAN HS(M) = 1.3 LARGEST HS(M)= 6.9 MEAN TP(SEC)= 4.9 NO. OF CASES= 10183.

STATION H36 45.35N 81.93W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	248	777	114	21	3	1	.	.	.	.	1164
0.50-0.99	.	603	1281	309	68	11	3	.	.	.	2275
1.00-1.49	.	.	234	553	189	35	2	.	.	.	1013
1.50-1.99	.	.	5	291	303	59	22	.	.	.	680
2.00-2.49	.	.	.	2	223	90	20	.	.	.	335
2.50-2.99	40	115	29	3	.	.	189
3.00-3.49	1	84	33	3	.	.	121
3.50-3.99	10	41	3	.	.	54
4.00-4.49	34	6	.	.	34
4.50-4.99	18	1	.	.	24
5.00-5.49	11	1	.	12
5.50-5.99	4	.	.	5
6.00-6.49	2	2	.	4
6.50-6.99	0
7.00+	1	.	1
TOTAL	248	1380	1634	1176	827	405	203	34	4	0	

MEAN HS(M) = 1.1 LARGEST HS(M)= 7.1 MEAN TP(SEC)= 4.5 NO. OF CASES= 5544.

STATION H36 45.35N 81.93W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	268	955	239	28	1						1491
0.50-0.99		608	1828	651	57	3	2				3149
1.00-1.49			294	776	347	26	5				1448
1.50-1.99			5	422	419	84	6				936
2.00-2.49				11	328	119	19	1			478
2.50-2.99					58	241	24	1			324
3.00-3.49					2	129	44				175
3.50-3.99						5	72	2			79
4.00-4.49							47				49
4.50-4.99							21	11	1		33
5.00-5.49								11	1		12
5.50-5.99								1	1		2
6.00-6.49									5		6
6.50-6.99											0
7.00+											0
TOTAL	268	1563	2366	1888	1212	607	240	30	8	0	7668.

MEAN HS(M) = 1.1 LARGEST HS(M)= 6.3 MEAN TP(SEC)= 4.6 NO. OF CASES= 7668.

STATION H36 45.35N 81.93W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	186	1028	828	218	5						2265
0.50-0.99		750	2323	1942	614	18	1				5648
1.00-1.49			779	1041	1247	192		1			3260
1.50-1.99			11	500	903	366	16				1796
2.00-2.49				48	507	370	69				994
2.50-2.99					67	356	120	3			546
3.00-3.49					11	121	132	3			267
3.50-3.99						6	117	5			128
4.00-4.49							41	8			50
4.50-4.99							7	10	2		19
5.00-5.49								7	1		8
5.50-5.99								4	2		6
6.00-6.49								1	4		5
6.50-6.99										1	0
7.00+											2
TOTAL	186	1778	3941	3749	3354	1429	503	42	11	1	14040.

MEAN HS(M) = 1.1 LARGEST HS(M)= 7.7 MEAN TP(SEC)= 5.0 NO. OF CASES= 14040.

STATION H36 45.35N 81.93W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	199	512	240	66	113	6					1017
0.50-0.99		856	1768	366	113	6					3109
1.00-1.49			911	510	165	38	1				1625
1.50-1.99			4	599	221	22	1				847
2.00-2.49				81	242	54	4				381
2.50-2.99					62	58	1				121
3.00-3.49					13	16	8				37
3.50-3.99						8	4				12
4.00-4.49						1					1
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	199	1368	2923	1622	816	203	19	0	0	0	6699.

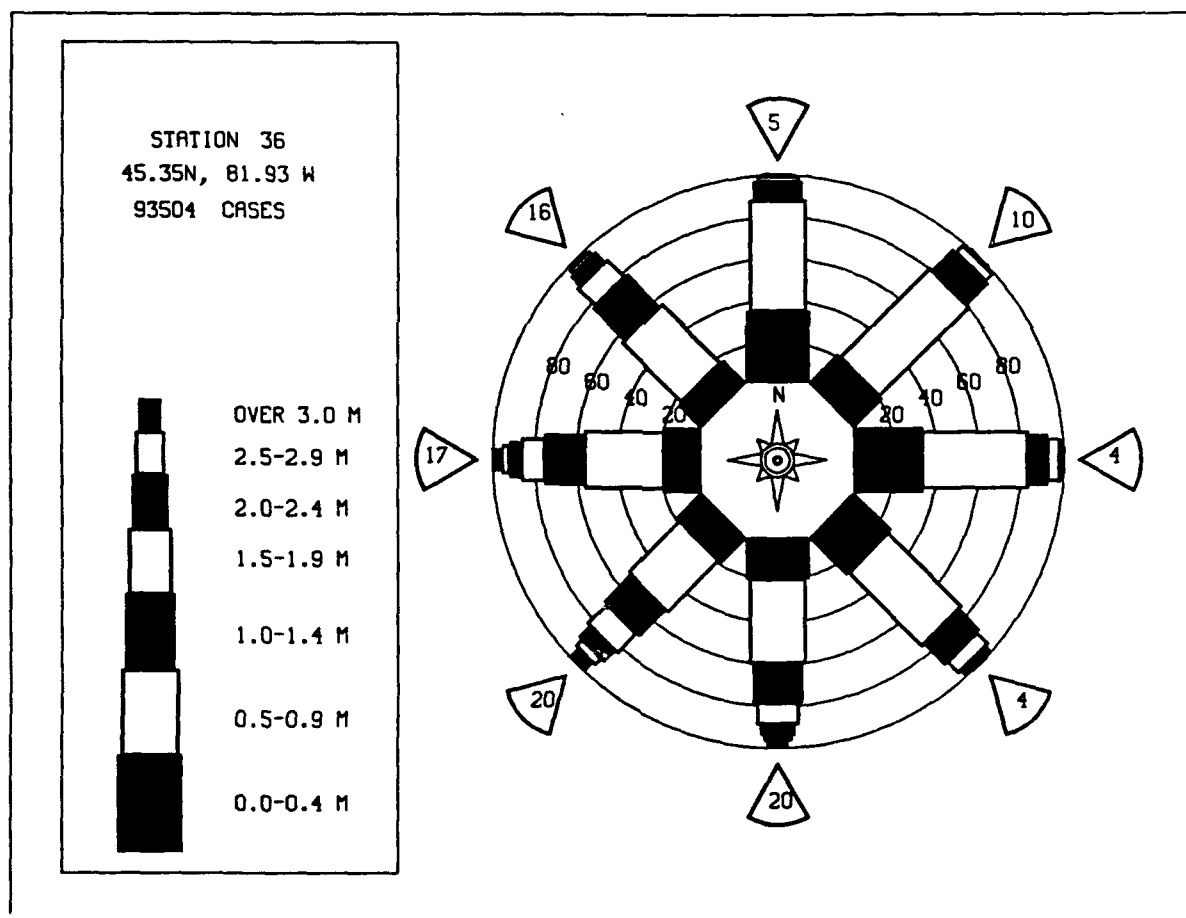
MEAN HS(M) = 1.0 LARGEST HS(M)= 4.0 MEAN TP(SEC)= 4.3 NO. OF CASES= 6699.

STATION H36 45.35N 81.93W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	167	438	28	2	1						635
0.50-0.99		605	160	10	7						776
1.00-1.49			110	25	1	1					143
1.50-1.99			20	47	5	4					76
2.00-2.49				7	17	6					30
2.50-2.99				2	9	2					13
3.00-3.49					2	1					3
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	167	1043	318	93	41	14	0	0	0	0	1575.

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.3 MEAN TP(SEC)= 3.3 NO. OF CASES= 1575.

STATION H36 45.35N 81.93W FOR ALL DIRECTIONS										
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER
0.00-0.49	494	1028	331	87	9	1	1	.	.	.
0.50-0.99	.	1650	1628	756	213	11	4	.	.	.
1.00-1.49	.	.	628	579	451	78	18	.	.	.
1.50-1.99	.	.	38	423	370	151	47	.	.	.
2.00-2.49	.	.	.	36	263	136	52	2	.	.
2.50-2.99	51	152	57	4	.	.
3.00-3.49	4	7	33	1	.	.
3.50-3.99	11	10	.	.
4.00-4.49	9	1	.
4.50-4.99	3	2	.
5.00-5.49
5.50-5.99
6.00-6.49
6.50-6.99
7.00+
TOTAL	494	2678	2625	1881	1361	610	271	38	8	0
MEAN HS(M)= 1.0 LARGEST HS(M)= 9.2 MEAN TP(SEC)= 4.4 TOTAL CASES= 93504.										



MEAN HS(METERS) BY MONTH AND YEAR

WIS STATION H36 (45.35N 81.93W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	0.7	1.1	1.1	1.1	1.3	0.9	0.6	0.8	0.9	1.4	1.5	1.2	1.0
1957	1.5	1.1	1.0	1.1	1.0	1.0	0.8	0.7	1.0	1.0	2.0	1.8	1.2
1958	1.1	1.1	0.6	1.0	1.3	1.4	0.8	1.2	1.5	1.5	2.0	1.4	1.2
1959	1.2	1.3	1.3	1.3	1.4	1.1	1.1	1.0	1.3	1.2	1.5	1.2	1.2
1960	1.1	1.2	0.8	1.1	0.9	0.7	0.7	0.7	0.7	1.0	1.8	1.5	1.0
1961	1.0	0.8	1.2	0.8	0.9	0.9	0.6	0.7	1.0	1.2	1.2	1.2	1.0
1962	1.5	0.8	0.7	1.0	0.8	0.7	0.8	0.8	1.1	0.8	1.0	1.1	0.9
1963	1.2	1.1	1.0	1.1	1.0	0.8	0.8	0.8	0.8	1.0	1.3	1.1	1.0
1964	1.6	1.2	1.5	1.5	1.4	1.0	0.7	1.1	1.0	1.2	1.2	1.2	1.2
1965	1.3	1.4	1.0	0.8	1.0	0.9	0.9	0.8	1.0	1.2	1.3	1.1	1.1
1966	1.2	1.0	1.1	1.0	1.1	0.8	0.9	0.8	0.9	1.7	1.3	1.1	1.1
1967	1.4	1.4	1.1	1.1	1.0	0.7	0.8	0.8	0.9	1.4	1.2	1.3	1.1
1968	1.1	1.2	1.2	1.5	0.9	0.9	1.1	0.8	0.9	1.2	1.1	1.3	1.1
1969	0.9	0.8	0.9	0.9	0.8	1.0	0.7	0.8	0.9	1.1	1.1	1.0	0.8
1970	0.9	1.2	0.8	1.1	1.1	0.8	0.7	0.8	1.0	1.3	1.1	1.1	1.1
1971	1.3	1.4	1.1	1.0	1.0	0.5	1.0	0.8	0.8	1.0	1.1	1.3	1.0
1972	1.7	1.0	1.1	1.0	0.6	0.7	0.7	0.7	1.1	1.1	0.9	1.0	0.9
1973	1.1	0.8	1.0	1.1	1.0	0.7	0.8	0.7	0.9	0.9	1.1	0.9	0.9
1974	1.1	0.8	1.0	1.1	1.0	0.8	0.8	0.7	1.1	1.1	1.1	1.0	1.0
1975	1.1	0.9	0.9	0.9	0.9	0.7	0.8	0.9	1.1	1.1	1.1	1.1	1.0
1976	1.1	1.1	1.1	1.1	1.1	0.9	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1977	1.1	1.1	1.1	1.1	1.1	0.9	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1978	1.1	1.1	1.1	1.1	1.1	0.9	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1979	0.9	0.9	1.0	0.9	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1	1.0
1980	0.8	0.8	0.9	0.9	0.8	0.8	0.6	0.7	1.1	1.0	1.1	1.1	0.9
1981	0.8	0.9	1.0	1.2	0.8	0.8	0.6	0.7	1.1	1.0	1.1	1.1	0.9
1982	1.4	0.9	1.3	1.3	0.9	0.8	0.8	0.8	0.8	1.1	1.1	1.4	1.0
1983	1.0	0.8	0.7	0.9	0.9	0.7	0.8	0.7	1.1	1.1	1.3	1.1	0.9
1984	1.0	0.9	1.0	0.9	1.0	0.8	0.8	0.6	1.1	0.9	1.4	1.4	1.0
1985	1.0	1.0	1.2	0.9	0.9	1.0	0.9	0.8	1.1	1.1	1.2	1.0	1.0
1986	1.1	0.7	1.1	0.9	0.8	0.9	0.7	0.7	0.8	0.9	1.3	1.1	0.9
1987	1.0	0.7	0.7	0.8	0.7	0.7	0.7	0.8	0.7	0.9	1.0	1.1	0.8
MEAN	1.2	1.0	1.0	1.0	0.9	0.8	0.8	0.8	0.9	1.1	1.3	1.2	

LARGEST HS(METERS) BY MONTH AND YEAR

WIS STATION H36 (45.35N 81.93W)

YEAR	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	2.2	6.1	4.0	4.8	4.8	4.6	3.1	3.2	3.8	5.2	5.9	6.2	
1957	6.6	3.3	4.0	5.1	4.4	5.0	4.0	2.2	3.3	3.8	6.0	6.2	
1958	6.6	3.3	4.0	5.1	4.4	5.0	4.0	2.2	3.3	3.8	6.0	6.2	
1959	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1960	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1961	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1962	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1963	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1964	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1965	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1966	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1967	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1968	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1969	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1970	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1971	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1972	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1973	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1974	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1975	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1976	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1977	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1978	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1979	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1980	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1981	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1982	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1983	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1984	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1985	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1986	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	
1987	5.5	3.3	4.0	4.4	5.5	4.0	3.0	2.2	3.3	3.8	6.0	6.2	

32 YR. STATISTICS FOR WIS STATION H36

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	1.0
MEAN PEAK WAVE PERIOD (SECONDS)	4.4
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	292.5
STANDARD DEVIATION OF WAVE HS (METERS)	0.8
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.5
LARGEST WAVE HS (METERS)	9.2
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	12.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	182.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	57121912

STATION H37 45.20N 81.93W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	227	597	54	2							880
0.50-0.99		1065	498	118	16						1697
1.00-1.49			473	86	24	3					586
1.50-1.99			6	174	20	12	1				213
2.00-2.49				16	16	9	4				45
2.50-2.99					5	3	2				10
3.00-3.49							1				1
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	227	1662	1031	396	81	27	8	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.1 MEAN TP(SEC)= 3.6 NO. OF CASES= 3218.

STATION H37 45.20N 81.93W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	219	520	35	3							777
0.50-0.99		989	499	64	8						1560
1.00-1.49			379	68	9	1					457
1.50-1.99			7	126	14	8	1				156
2.00-2.49				11	8	3	1				23
2.50-2.99					1	1					2
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	219	1509	920	272	40	13	2	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 2.6 MEAN TP(SEC)= 3.5 NO. OF CASES= 2790.

STATION H37 45.20N 81.93W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	425	654	58	9	1						1347
0.50-0.99		3027	1778	51	22	1					4879
1.00-1.49			1162	9	17	8					1197
1.50-1.99			10	372	1	11	1				395
2.00-2.49				51	11	1					63
2.50-2.99					8						8
3.00-3.49					1						1
3.50-3.99					1						1
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	425	3881	3008	492	62	22	1	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 3.5 MEAN TP(SEC)= 3.5 NO. OF CASES= 7388.

STATION H37 45.20N 81.93W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	268	491	21	1							781
0.50-0.99		864	223	12	6						1105
1.00-1.49			174	11	5						190
1.50-1.99			24	32	3	1					60
2.00-2.49				8	1						9
2.50-2.99					1						1
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	268	1355	442	64	16	1	0	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.7 MEAN TP(SEC)= 3.2 NO. OF CASES= 2013.

STATION H37 45.20N 81.93W AZIMUTH(DEGREES) = 90.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	491	678	39	3	.	.	.	.	.	.	1211
0.50-0.99	.	1125	322	16	.	.	.	.	.	.	1463
1.00-1.49	.	.	305	12	4	.	.	.	.	.	321
1.50-1.99	.	.	124	89	1	2	.	.	.	.	216
2.00-2.49	.	.	.	38	1	.	1	.	.	.	48
2.50-2.99	.	.	.	6	2	.	.	.	.	.	8
3.00-3.49	2	.	.	.	.	.	2
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	491	1803	790	164	10	2	1	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.0 MEAN TP(SEC)= 3.2 NO. OF CASES= 3056.

STATION H37 45.20N 81.93W AZIMUTH(DEGREES) = 112.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	257	316	11	1	.	.	.	.	.	.	585
0.50-0.99	.	476	164	6	1	.	.	.	.	.	647
1.00-1.49	.	.	125	41	.	.	.	.	.	.	166
1.50-1.99	.	.	8	47	7	1	.	.	.	.	63
2.00-2.49	.	.	.	8	13	1	.	.	.	.	22
2.50-2.99	7	2	2	.	.	.	11
3.00-3.49	1	1	.	.	.	2
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	257	792	308	103	28	5	3	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.1 MEAN TP(SEC)= 3.3 NO. OF CASES= 1407.

STATION H37 45.20N 81.93W AZIMUTH(DEGREES) = 135.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	263	333	53	2	.	.	.	.	.	.	651
0.50-0.99	.	546	496	67	2	.	.	.	.	.	1111
1.00-1.49	.	.	272	224	16	4	.	.	.	.	516
1.50-1.99	.	.	4	247	50	2	.	.	.	.	303
2.00-2.49	.	.	.	9	127	4	1	.	.	.	141
2.50-2.99	56	5	1	.	.	.	62
3.00-3.49	20	1	.	.	.	20
3.50-3.99	5	1	.	.	.	6
4.00-4.49	1	2	.	.	.	3
4.50-4.99	1	.	.	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	263	879	825	549	251	41	6	0	0	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.9 MEAN TP(SEC)= 3.9 NO. OF CASES= 2639.

STATION H37 45.20N 81.93W AZIMUTH(DEGREES) = 157.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	251	662	155	25	.	.	.	.	.	.	1093
0.50-0.99	.	649	849	341	16	.	.	.	.	.	1855
1.00-1.49	.	.	255	466	83	4	.	.	.	.	808
1.50-1.99	.	.	2	382	124	9	1	.	.	.	518
2.00-2.49	.	.	.	12	207	14	1	.	.	.	234
2.50-2.99	63	28	1	.	.	.	92
3.00-3.49	1	37	5	.	.	.	43
3.50-3.99	6	3	.	.	.	11
4.00-4.49	2	.	.	.	2
4.50-4.99	3	.	.	.	3
5.00-5.49	1	.	.	.	1
5.50-5.99	0
6.00-6.49	0
6.50-6.99	1	.	1
7.00+	0
TOTAL	251	1311	1261	1226	494	98	19	0	1	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 6.8 MEAN TP(SEC)= 4.2 NO. OF CASES= 4368.

STATION H37 45.20N 81.93W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	360	1028	542	144	13						2087
0.50-0.99	.	878	1458	1408	321	10		.	.	.	4076
1.00-1.49	.	.	315	698	733	95	10	.	.	.	1851
1.50-1.99	.	.	.	406	413	220	27	.	.	.	1069
2.00-2.49	.	.	3	12	281	170	69	1	.	.	533
2.50-2.99	70	160	112	5	.	.	347
3.00-3.49	1	105	60	18	.	.	184
3.50-3.99	9	69	16	3	.	97
4.00-4.49	47	12	1	.	60
4.50-4.99	18	31	2	1	62
5.00-5.49	1	17	3	1	22
5.50-5.99	5	.	.	6
6.00-6.49	1	7	.	8
6.50-6.99	1	.	1
7.00+	6	6
TOTAL	360	1906	2319	2668	1832	769	413	102	22	8	
MEAN HS(M) = 1.1	LARGEST HS(M) = 9.0		MEAN TP (SEC) = 4.8		NO. OF CASES = 9743.						

STATION H37 45.20N 81.93W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	335	1142	558	152	17	3	.	.	.	.	2207
0.50-0.99	.	900	1567	1482	343	16	.	.	.	.	4308
1.00-1.49	.	.	330	835	1022	89	5	.	.	.	2291
1.50-1.99	.	.	7	455	659	403	32	.	.	.	1556
2.00-2.49	.	.	.	5	391	347	130	1	.	.	874
2.50-2.99	80	249	160	3	.	.	492
3.00-3.49	1	111	131	18	.	.	261
3.50-3.99	17	142	10	.	.	170
4.00-4.49	2	82	18	3	.	105
4.50-4.99	21	22	4	.	47
5.00-5.49	4	22	6	.	35
5.50-5.99	3	10	.	13
6.00-6.49	1	9	.	10
6.50-6.99	2	.	3
7.00+	1	1
TOTAL	335	2042	2462	2929	2513	1247	707	101	35	2	11587
MEAN HS(M) = 1.2	LARGEST HS(M)= 8.1		MEAN TP(SEC)= 5.0		NO. OF CASES= 11587.						

STATION H37 45.20N 81.93W AZIMUTH(DEGREES) ~225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	281	1064	250	42	8						1645
0.50-0.99	.	853	1563	772	163	11	2	.	.	.	3364
1.00-1.49	.	1	365	860	568	83	2	.	.	.	1889
1.50-1.99	.	.	.	549	566	214	29	.	.	.	1362
2.00-2.49	.	.	4	11	470	229	85	.	.	.	795
2.50-2.99	77	265	121	4	.	.	467
3.00-3.49	139	86	16	1	.	242
3.50-3.99	14	104	8	1	.	127
4.00-4.49	69	17	4	.	90
4.50-4.99	22	26	7	.	31
5.00-5.49	6	25	3	1	39
5.50-5.99	8	4	.	12
6.00-6.49	1	8	1	10
6.50-6.99	1	3	2	6
7.00+	0
TOTAL	281	1918	2182	2234	1852	965	526	106	31	4	
MEAN HS (M) = 1.2	LARGEST HS (M) =		6.9		MEAN TP (SEC) =		4.9		NO. OF CASES =		9466.

STATION H37 45.20N 81.93W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	255	715	74	20	3	.	.	.	.	.	1067
0.50-0.99	.	601	996	302	37	3	.	.	.	.	1939
1.00-1.49	.	.	206	449	188	21	3	.	.	.	867
1.50-1.99	.	.	3	241	280	56	9	.	.	.	589
2.00-2.49	.	.	.	2	217	58	20	.	.	.	297
2.50-2.99	28	110	24	2	.	.	164
3.00-3.49	74	19	3	.	.	96
3.50-3.99	8	33	3	.	.	44
4.00-4.49	18	1	1	.	20
4.50-4.99	12	6	.	.	18
5.00-5.49	2	4	3	.	7
5.50-5.99	1	1	.	2
6.00-6.49	1	.	1
6.50-6.99	0
7.00+	0
TOTAL	255	1316	1279	1014	753	330	140	22	7	0	
MEAN HS(M) = 1.1	LARGEST HS(M) = 6.8		MEAN TP(SEC) = 4.5		NO. OF CASES = 4799.						

STATION H37 45.20N 81.93W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	243	835	117	8	1						1204
0.50-0.99		630	1258	358	17	1	1	.	.	.	2265
1.00-1.49			208	556	220	13	1	.	.	.	998
1.50-1.99			2	328	311	39	7	.	.	.	587
2.00-2.49				1	270	68	8	.	.	.	347
2.50-2.99					44	160	13	.	.	.	217
3.00-3.49					1	105	23	1	.	.	130
3.50-3.99						12	49		.	.	61
4.00-4.49							27	.	.	.	22
4.50-4.99							18	.	.	.	2
5.00-5.49								2	.	.	1
5.50-5.99								1	.	.	0
6.00-6.49								.	.	.	0
6.50-6.99								.	.	.	0
7.00+								.	.	.	0
TOTAL	243	1465	1585	1251	864	398	147	8	0	0	
MEAN HS (M) = 1.1	LARGEST HS (M) = 5.5		MEAN TP (SEC) = 4.5		NO. OF CASES = 5589.						

STATION H37 45.20N 81.93W AZIMUTH(DEGREES) -292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	162	1194	559	58	209	.	.	.	.	.	1973
0.50-0.99	.	682	2203	1643	209	.	.	.	.	.	4737
1.00-1.49	.	.	267	1222	1163	125	1	.	.	.	2778
1.50-1.99	.	.	1	407	749	342	10	.	.	.	1509
2.00-2.49	.	.	.	3	503	287	43	.	.	.	836
2.50-2.99	86	367	70	1	.	.	524
3.00-3.49	192	78	3	.	.	273
3.50-3.99	17	141	5	.	.	161
4.00-4.49	1	56	5	.	.	62
4.50-4.99	17	16	2	.	35
5.00-5.49	1	17	.	.	18
5.50-5.99	4	3	.	7
6.00-6.49	4	.	4
6.50-6.99	1	.	.	1
7.00+	1	1
TOTAL	162	1876	3030	3333	2710	1331	417	50	9	1	
MEAN HS (M) = 1.2	LARGEST HS (M) = 7.8		MEAN TP (SEC) = 5.0		NO. OF CASES = 12095.						

STATION H37 45.20N 81.93W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	163	642	365	91	1	.	.	.	.	.	1262
0.50-0.99	.	756	2395	1197	206	1	.	.	.	.	4555
1.00-1.49	.	.	407	1213	639	70	.	.	.	.	2329
1.50-1.99	.	.	.	579	828	143	4	.	.	.	1555
2.00-2.49	.	.	1	9	622	143	19	.	.	.	793
2.50-2.99	70	392	32	.	.	.	494
3.00-3.49	203	51	2	.	.	256
3.50-3.99	12	97	.	.	.	109
4.00-4.49	56	.	.	.	58
4.50-4.99	16	2	.	.	22
5.00-5.49	6	.	.	4
5.50-5.99	1	.	.	1
6.00-6.49	1	.	1
6.50-6.99	0
7.00+	0
TOTAL	163	1398	3168	3089	2366	964	275	15	2	0	
MEAN HS (M) = 1.2	LARGEST HS (M) = 6.0		MEAN TP (SEC) = 4.9		NO. OF CASES = 10712.						

STATION H37 45.20N 81.93W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	122	317	29								468
0.50-0.99		540	734	114	5	1	.	.	.	.	1394
1.00-1.49			317	177	52	2	.	.	.	.	548
1.50-1.99				173	73	9	.	.	.	.	257
2.00-2.49				5	65	12	3	.	.	.	85
2.50-2.99					17	18	2	.	.	.	37
3.00-3.49					2	8	.	.	.	.	11
3.50-3.99						2	3	.	.	.	5
4.00-4.49							1	.	.	.	1
4.50-4.99								.	.	.	0
5.00-5.49								.	.	.	0
5.50-5.99								.	.	.	0
6.00-6.49								.	.	.	0
6.50-6.99								.	.	.	0
7.00+								.	.	.	0
TOTAL	122	857	1082	469	214	53	9	0	0	0	
MEAN HS (M) = 0.9	LARGEST HS (M) = 4.3		MEAN TP (SEC) = 4.0		NO. OF CASES = 2634.						

STATION H37 45.20N 81.93W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

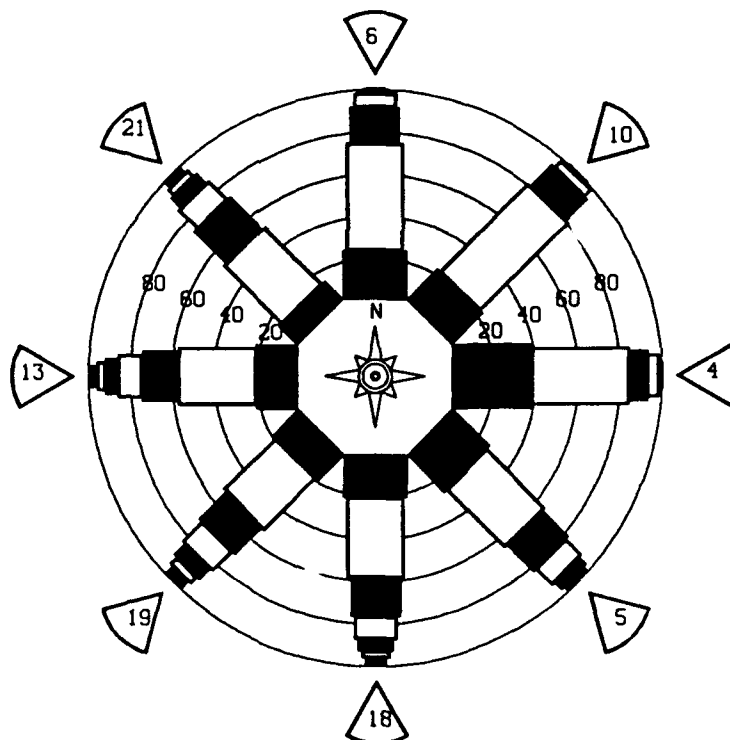
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	433	1139	292	56	4	.	.	.	.	.	1924
0.50-0.99	.	1458	1701	795	137	4	.	.	.	.	4095
1.00-1.49	.	.	556	693	474	54	2	.	.	.	1779
1.50-1.99	.	.	21	461	410	147	12	.	.	.	1051
2.00-2.49	.	.	.	20	320	135	38	.	.	.	513
2.50-2.99	62	176	54	1	.	.	293
3.00-3.49	100	45	6	.	.	151
3.50-3.99	10	64	4	.	.	78
4.00-4.49	36	5	.	.	41
4.50-4.99	13	11	1	.	25
5.00-5.49	1	9	1	.	11
5.50-5.99	2	2	.	4
6.00-6.49	3	.	3
6.50-6.99	0
7.00+	0
TOTAL	433	2597	2570	2025	1407	626	265	38	7	0	

MEAN HS(M)= 1.0 LARGEST HS(M)= 9.0 MEAN TP(SEC)= 4.5 TOTAL CASES= 93504.

STATION 37
45.20N, 81.93 W
93504 CASES



OVER 3.0 M
2.5-2.9 M
2.0-2.4 M
1.5-1.9 M
1.0-1.4 M
0.5-0.9 M
0.0-0.4 M



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H37 (45.20N 81.93W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	1.1	1.1	1.2	1.3	0.9	0.7	0.7	0.9	1.4	1.5	1.2	1.1
1957	1.5	1.2	1.0	1.1	1.0	1.0	0.8	0.7	1.0	1.0	2.1	1.9	1.2
1958	1.2	1.2	0.6	1.0	1.3	1.4	0.8	1.2	1.4	1.5	2.0	1.4	1.3
1959	1.4	1.4	1.4	1.3	1.4	1.1	1.1	1.0	1.3	1.3	1.5	1.3	1.3
1960	1.2	1.3	0.9	1.2	0.9	0.8	0.7	0.7	0.7	1.0	1.8	1.7	1.1
1961	1.1	0.9	1.2	0.9	0.9	0.9	0.6	0.7	1.0	1.3	1.3	1.3	1.0
1962	1.6	0.9	0.7	1.1	0.9	0.7	0.8	0.8	1.1	0.9	1.0	1.3	1.0
1963	1.2	1.1	1.1	1.1	1.0	0.8	0.9	0.8	0.7	1.0	1.3	1.2	1.0
1964	1.6	1.3	1.5	1.6	1.5	1.0	0.8	1.2	1.1	1.1	1.3	1.3	1.3
1965	1.4	1.3	1.0	0.9	1.0	0.9	0.8	0.8	1.1	1.3	1.4	1.2	1.1
1966	1.2	1.0	1.3	1.1	1.1	0.9	0.8	0.9	0.9	1.7	1.1	1.1	1.1
1967	1.5	1.3	1.2	1.1	1.1	0.9	0.8	0.8	0.9	1.1	1.1	1.4	1.1
1968	1.1	1.3	0.9	0.9	0.8	0.9	0.7	0.9	0.9	1.1	1.1	1.1	1.1
1969	0.9	0.8	1.1	1.1	0.9	0.7	0.7	0.8	1.0	1.1	1.3	1.1	0.9
1970	1.4	1.4	1.2	1.1	1.0	0.5	0.9	0.8	0.8	1.1	1.2	1.4	1.1
1971	1.7	1.0	1.1	1.1	1.0	0.7	0.7	0.7	0.9	1.1	0.9	1.0	0.9
1972	1.4	0.8	1.0	1.1	1.0	0.7	0.8	0.7	0.9	1.1	1.1	1.1	1.0
1973	1.3	0.9	1.2	1.1	1.0	0.8	0.8	0.8	1.0	1.1	1.0	1.0	1.0
1974	1.4	1.0	0.9	1.1	0.6	0.8	0.8	0.8	0.9	1.1	1.3	1.1	1.0
1975	1.3	1.3	1.4	1.0	0.9	0.7	0.8	0.7	1.0	1.0	1.2	1.2	1.0
1976	1.1	1.3	1.1	0.9	0.8	0.7	0.9	0.9	0.9	1.0	1.2	1.4	1.0
1977	1.0	0.8	0.9	1.1	0.9	0.9	0.9	1.1	1.0	1.4	1.2	1.2	1.0
1978	1.1	1.0	1.0	1.0	0.9	1.1	0.7	0.8	0.9	0.9	1.3	1.3	1.0
1979	1.3	0.8	1.1	0.9	0.8	0.8	0.6	0.7	1.1	1.1	1.2	1.1	1.0
1980	0.9	1.4	0.9	1.3	0.7	0.7	0.7	0.6	0.8	1.0	0.9	1.0	0.9
1981	1.4	0.9	1.3	1.3	0.6	0.6	0.8	0.8	0.8	1.0	1.1	1.4	1.0
1982	1.1	0.8	0.7	0.9	0.9	0.7	0.7	0.6	0.9	1.2	1.4	1.1	0.9
1983	1.0	0.9	1.1	0.9	1.0	0.8	0.8	0.6	1.1	0.9	1.4	1.4	1.0
1984	1.0	1.0	1.2	1.0	0.8	1.0	0.9	0.8	0.9	1.1	1.2	1.1	1.0
1985	1.2	0.7	1.2	1.0	0.8	0.9	0.7	0.7	0.8	0.8	1.3	1.2	0.9
1986	1.1	0.7	0.8	0.9	0.7	0.7	0.7	0.8	0.7	0.9	1.1	1.2	0.9
MEAN	1.2	1.1	1.1	1.1	0.9	0.8	0.8	0.8	1.0	1.1	1.3	1.2	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H37 (45.20N 81.93W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.1	5.9	4.2	4.4	4.8	3.7	3.0	2.8	3.6	5.5	5.8	5.3	
1957	6.6	4.3	5.0	4.4	4.2	3.2	3.0	2.7	3.6	5.3	5.8	5.0	
1958	4.9	4.4	4.4	4.4	4.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1959	4.9	4.4	4.4	4.4	4.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1960	4.7	4.4	4.4	4.4	4.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1961	4.3	3.6	3.8	3.3	3.7	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1962	4.9	3.2	3.5	3.3	3.7	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1963	3.7	4.7	4.0	4.4	4.8	3.7	3.3	3.3	3.3	3.3	3.3	3.3	
1964	6.0	4.5	5.8	5.0	5.6	4.1	3.3	3.3	3.3	3.3	3.3	3.3	
1965	4.2	4.5	6.2	4.0	3.6	3.0	3.3	3.3	3.3	3.3	3.3	3.3	
1966	5.1	4.9	4.7	4.0	4.5	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1967	6.4	5.3	4.0	3.4	4.5	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1968	3.0	4.8	5.1	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1969	4.5	3.3	2.8	2.5	2.7	2.7	1.9	3.0	2.5	4.1	3.9	2.9	
1970	3.2	4.2	3.3	3.3	4.0	3.1	1.9	2.9	4.0	2.9	4.9	4.6	
1971	4.4	6.9	3.9	3.2	3.8	1.3	3.9	2.6	3.2	5.7	3.3	4.9	
1972	4.8	3.5	3.5	3.5	2.5	2.1	1.9	2.8	4.1	3.2	3.3	3.3	
1973	4.0	2.3	3.6	4.7	2.9	2.3	2.2	2.5	3.4	3.6	3.6	3.5	
1974	7.8	6.3	3.3	2.6	3.3	3.0	2.9	3.3	4.2	3.1	4.1	3.2	
1975	6.8	4.3	2.8	3.1	2.9	2.4	2.2	2.3	2.8	4.0	3.5	4.3	
1976	5.2	3.6	4.4	3.1	3.6	2.3	2.8	2.1	4.5	4.0	3.5	4.8	
1977	4.2	3.7	4.1	3.4	2.8	3.1	3.5	3.9	3.9	3.6	4.6	4.6	
1978	3.7	2.2	5.2	3.9	3.8	3.1	3.5	3.2	3.7	5.3	3.3	3.3	
1979	3.4	3.7	4.0	4.8	3.3	4.3	2.6	3.5	3.0	3.5	6.1	4.4	
1980	6.4	4.0	5.1	3.5	4.0	2.4	1.4	2.1	3.1	3.9	3.8	4.3	
1981	2.9	4.1	3.3	4.8	2.4	2.9	1.9	3.0	3.9	4.7	4.8	4.3	
1982	5.8	4.7	4.6	5.0	1.9	2.1	3.4	3.0	3.2	4.6	3.3	5.1	
1983	4.7	3.0	2.1	4.9	3.4	2.3	2.7	2.2	2.8	4.7	3.8	3.9	
1984	4.4	2.8	5.2	5.9	3.2	2.5	2.5	2.1	4.1	3.4	4.0	4.7	
1985	3.1	2.8	4.2	4.8	2.5	4.1	2.7	2.9	3.7	3.2	4.3	4.1	
1986	5.0	1.9	4.9	3.2	3.1	2.5	2.8	3.4	2.7	3.5	4.7	3.9	
1987	3.3	3.4	3.9	4.7	2.8	2.2	2.5	3.0	2.8	3.1	4.3	4.0	

32 YR. STATISTICS FOR WIS STATION H37

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	1.0
MEAN PEAK WAVE PERIOD	(SECONDS)	4.5
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	292.5
STANDARD DEVIATION OF WAVE HS	(METERS)	0.8
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.5
LARGEST WAVE HS	(METERS)	9.0
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	178.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		57121909

STATION H38 45.07N 81.72W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	344	595	198	31	3	.	.	.	.	.	1171
0.50-0.99	.	880	139	207	86	.	.	.	.	.	1282
1.00-1.49	.	.	147	41	57	12	.	.	.	.	257
1.50-1.99	.	.	42	13	5	10	1	.	.	.	71
2.00-2.49	.	.	.	1	.	2	2	.	.	.	5
2.50-2.99	0
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	344	1475	526	293	121	24	3	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.4 MEAN TP(SEC)= 3.5 NO. OF CASES= 2614.

STATION H38 45.07N 81.72W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	438	552	172	40	4	.	.	.	.	.	1206
0.50-0.99	.	1238	374	72	49	.	.	.	.	.	1734
1.00-1.49	.	.	344	7	21	1	.	.	.	.	381
1.50-1.99	.	.	17	91	1	1	.	.	.	.	110
2.00-2.49	.	.	.	6	1	.	.	.	.	.	7
2.50-2.99	1
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	438	1790	907	216	76	11	1	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.6 MEAN TP(SEC)= 3.3 NO. OF CASES= 3223.

STATION H38 45.07N 81.72W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	656	627	145	27	3	.	.	.	.	.	1458
0.50-0.99	.	1865	1100	7	6	.	.	.	.	.	2978
1.00-1.49	.	.	749	.	3	3	.	.	.	.	755
1.50-1.99	.	.	1	196	.	.	.	.	.	.	197
2.00-2.49	.	.	.	34	3	.	.	.	.	.	37
2.50-2.99	9	.	.	.	.	.	9
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	656	2492	1995	264	24	3	0	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 2.8 MEAN TP(SEC)= 3.4 NO. OF CASES= 5088.

STATION H38 45.07N 81.72W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	650	532	77	6	.	.	.	.	.	.	1315
0.50-0.99	.	1189	438	9	1	.	.	.	.	.	1637
1.00-1.49	.	.	344	1	.	.	.	.	.	.	345
1.50-1.99	.	.	13	120	.	.	.	.	.	.	133
2.00-2.49	.	.	.	20	4	.	.	.	.	.	24
2.50-2.99	3	.	.	.	.	.	3
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	650	1771	872	156	8	0	0	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.6 MEAN TP(SEC)= 3.2 NO. OF CASES= 3238.

STATION H38 45.07N 81.72W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	647	589	63	9	2	.	.	.	.	.	1308
0.50-0.99	.	1034	220	7	1	.	.	.	.	.	1263
1.00-1.49	.	.	275	4	1	.	.	.	.	.	280
1.50-1.99	.	.	72	65	1	.	.	.	.	.	138
2.00-2.49	.	.	.	22	.	.	.	.	.	.	22
2.50-2.99	.	.	.	1	.	.	.	.	.	.	1
3.00-3.49	1	.	.	.	.	.	1
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	647	1623	630	108	5	0	0	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.0 MEAN TP(SEC)= 3.1 NO. OF CASES= 2822.

STATION H38 45.07N 81.72W AZIMUTH(DEGREES) = 112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	456	404	25	5	.	.	.	.	.	.	890
0.50-0.99	.	540	213	4	.	.	.	.	.	.	757
1.00-1.49	.	.	176	44	.	.	.	.	.	.	220
1.50-1.99	.	.	21	80	3	.	.	.	.	.	104
2.00-2.49	.	.	.	10	19	2	.	.	.	.	31
2.50-2.99	.	.	.	2	9	.	.	.	.	.	11
3.00-3.49	1	4	.	.	.	.	5
3.50-3.99	2	.	.	.	.	2
4.00-4.49	0
4.50-4.99	1	.	.	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	456	944	435	145	32	8	1	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 4.7 MEAN TP(SEC)= 3.2 NO. OF CASES= 1897.

STATION H38 45.07N 81.72W AZIMUTH(DEGREES) = 135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	309	329	49	1	.	.	.	.	.	.	688
0.50-0.99	.	413	439	39	.	.	.	.	.	.	891
1.00-1.49	.	.	344	164	5	.	.	.	.	.	513
1.50-1.99	.	.	4	210	7	.	.	.	.	.	221
2.00-2.49	.	.	.	16	64	.	.	.	.	.	80
2.50-2.99	16	.	.	.	.	.	16
3.00-3.49	1	2	.	.	.	.	3
3.50-3.99	0
4.00-4.49	0
4.50-4.99	1	.	.	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	309	742	836	430	93	2	1	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.5 MEAN TP(SEC)= 3.7 NO. OF CASES= 2262.

STATION H38 45.07N 81.72W AZIMUTH(DEGREES) = 157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	340	705	129	9	.	.	.	.	.	.	1183
0.50-0.99	.	520	816	104	1	.	.	.	.	.	1441
1.00-1.49	.	1	451	327	18	.	.	.	.	.	797
1.50-1.99	.	.	3	265	55	1	.	.	.	.	324
2.00-2.49	.	.	.	8	79	2	.	.	.	.	89
2.50-2.99	21	5	.	.	.	.	26
3.00-3.49	7	.	.	.	.	7
3.50-3.99	2	.	.	.	.	2
4.00-4.49	1	.	.	.	1
4.50-4.99	1	.	.	.	1
5.00-5.49	1	.	.	1
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	340	1226	1399	713	174	17	2	1	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 5.4 MEAN TP(SEC)= 3.8 NO. OF CASES= 3628.

STATION H38 45.07N 81.72W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	424	1045	290	33	2	.	.	.	.	.	1794
0.50-0.99	.	665	1588	775	24	.	.	.	.	.	3033
1.00-1.49	.	.	352	1033	287	1	.	.	.	.	1673
1.50-1.99	.	.	3	432	548	49	1	.	.	.	1033
2.00-2.49	.	.	.	14	379	104	14	.	.	.	511
2.50-2.99	79	178	21	1	.	.	279
3.00-3.49	1	125	32	3	.	.	161
3.50-3.99	12	81	.	.	.	95
4.00-4.49	45	.	.	.	45
4.50-4.99	11	2	.	.	13
5.00-5.49	1	4	.	.	5
5.50-5.99	2	.	.	2
6.00-6.49	2	3	2
6.50-6.99	2	3	5
7.00+
TOTAL	424	1710	2213	2288	1320	469	206	12	4	3	8103.

MEAN HS(M) = 1.1 LARGEST HS(M)= 9.8 MEAN TP(SEC)= 4.5 NO. OF CASES= 8103.

STATION H38 45.07N 81.72W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	377	1476	580	181	16	1	.	.	.	.	2631
0.50-0.99	.	788	1936	1415	194	7	.	.	.	.	4340
1.00-1.49	.	.	352	1188	885	34	3	.	.	.	2462
1.50-1.99	.	.	6	519	962	299	10	.	.	.	1796
2.00-2.49	.	.	.	10	547	388	59	1	.	.	1005
2.50-2.99	87	419	143	.	.	.	649
3.00-3.49	208	120	1	.	.	328
3.50-3.99	23	174	1	1	.	203
4.00-4.49	104	1	1	.	114
4.50-4.99	29	18	.	.	47
5.00-5.49	6	22	.	.	29
5.50-5.99	1	10	9	.	20
6.00-6.49	1	6	.	7
6.50-6.99	6	.	6
7.00+	0
TOTAL	377	2264	2874	3313	2691	1379	649	67	24	0	12774.

MEAN HS(M) = 1.2 LARGEST HS(M)= 6.9 MEAN TP(SEC)= 4.9 NO. OF CASES= 12774.

STATION H38 45.07N 81.72W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	434	1464	548	109	6	.	.	.	.	.	2561
0.50-0.99	.	762	1673	1298	124	6	1	.	.	.	3864
1.00-1.49	.	.	296	890	736	63	1	.	.	.	1986
1.50-1.99	.	.	5	401	687	272	13	.	.	.	1378
2.00-2.49	.	.	.	10	357	328	75	.	.	.	770
2.50-2.99	68	252	139	2	.	.	461
3.00-3.49	162	112	10	.	.	284
3.50-3.99	8	166	18	.	.	184
4.00-4.49	1	108	23	.	.	124
4.50-4.99	23	29	.	.	55
5.00-5.49	4	25	.	.	34
5.50-5.99	19	9	1	29
6.00-6.49	2	5	1	15
6.50-6.99	1	5	4	7
7.00+	4
TOTAL	434	2226	2522	2708	1978	1092	642	109	39	6	11013.

MEAN HS(M) = 1.2 LARGEST HS(M)= 7.6 MEAN TP(SEC)= 4.9 NO. OF CASES= 11013.

STATION H38 45.07N 81.72W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	340	1074	206	22	44	.	.	.	.	.	1642
0.50-0.99	.	512	1051	544	274	17	.	.	.	.	2155
1.00-1.49	.	.	203	498	309	82	5	.	.	.	992
1.50-1.99	.	.	1	218	197	134	31	.	.	.	615
2.00-2.49	.	.	.	4	27	128	44	.	.	.	366
2.50-2.99	61	35	2	.	.	201
3.00-3.49	13	69	4	.	.	120
3.50-3.99	42	2	.	.	84
4.00-4.49	12	9	1	.	44
4.50-4.99	11	2	.	22
5.00-5.49	2	2	.	15
5.50-5.99	1	2	.	9
6.00-6.49	2	7	.	1
6.50-6.99	1	.	0
7.00+
TOTAL	340	1586	1461	1286	851	459	241	37	13	0	5883.

MEAN HS(M) = 1.1 LARGEST HS(M)= 6.6 MEAN TP(SEC)= 4.5 NO. OF CASES= 5883.

STATION H38 45.07N 81.72W AZIMUTH(DEGREES) =270.0											
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	321	1182	270	27	.	.	.	.	.	.	1800
0.50-0.99	.	610	1234	534	27	.	.	.	.	.	2405
1.00-1.49	.	1	207	612	266	5	1	.	.	.	1092
1.50-1.99	.	.	2	249	347	43	1	.	.	.	642
2.00-2.49	.	.	.	4	264	117	14	.	.	.	399
2.50-2.99	42	183	21	.	.	.	246
3.00-3.49	106	44	.	.	.	150
3.50-3.99	3	66	1	.	.	70
4.00-4.49	1	37	4	.	.	42
4.50-4.99	11	3	.	.	14
5.00-5.49	2	9	.	.	11
5.50-5.99	2	1	.	3
6.00-6.49	1	.	.	1
6.50-6.99	0
7.00+	0
TOTAL	321	1793	1713	1426	946	458	197	20	1	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 6.4 MEAN TP(SEC)= 4.5 NO. OF CASES= 6446.

STATION H38 45.07N 81.72W AZIMUTH(DEGREES) =292.5											
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	288	1606	1145	197	1	.	.	.	.	.	3237
0.50-0.99	.	717	1890	2109	669	13	.	.	.	.	5498
1.00-1.49	.	.	301	816	1088	303	10	.	.	.	2518
1.50-1.99	.	.	6	467	625	300	43	.	.	.	1441
2.00-2.49	.	.	.	6	409	278	73	2	.	.	768
2.50-2.99	68	364	78	4	.	.	514
3.00-3.49	1	178	119	6	.	.	304
3.50-3.99	13	185	7	1	.	206
4.00-4.49	70	4	.	.	76
4.50-4.99	22	19	2	.	43
5.00-5.49	4	10	3	.	17
5.50-5.99	2	2	2	7
6.00-6.49	1	2	1	4
6.50-6.99	1	1
7.00+	0
TOTAL	288	2323	3442	3595	2861	1449	604	55	17	4	

MEAN HS(M) = 1.1 LARGEST HS(M)= 7.4 MEAN TP(SEC)= 4.9 NO. OF CASES= 13707.

STATION H38 45.07N 81.72W AZIMUTH(DEGREES) =315.0											
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	219	695	1025	398	12	.	.	.	.	.	2349
0.50-0.99	.	625	1251	1311	542	24	.	.	.	.	3753
1.00-1.49	.	2	233	440	485	168	6	.	.	.	1334
1.50-1.99	.	.	7	353	402	101	26	.	.	.	889
2.00-2.49	.	.	.	10	280	113	12	.	.	.	415
2.50-2.99	31	217	8	2	.	.	258
3.00-3.49	2	98	49	1	.	.	150
3.50-3.99	1	57	1	.	.	59
4.00-4.49	19	3	.	.	22
4.50-4.99	4	5	.	.	9
5.00-5.49	0
5.50-5.99	1	1	.	2
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	219	1322	2516	2512	1754	722	181	13	1	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 5.6 MEAN TP(SEC)= 4.8 NO. OF CASES= 8655.

STATION H38 45.07N 81.72W AZIMUTH(DEGREES) =337.5											
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	198	362	131	28	1	.	.	.	.	.	719
0.50-0.99	.	483	255	178	17	1	.	.	.	.	934
1.00-1.49	.	.	97	148	72	10	.	.	.	.	327
1.50-1.99	.	.	27	82	75	11	.	.	.	.	197
2.00-2.49	.	.	.	6	42	11	3	.	.	.	62
2.50-2.99	.	.	.	1	8	13	5	.	.	.	27
3.00-3.49	1	7	4	.	.	.	12
3.50-3.99	2	2	.	.	.	4
4.00-4.49	1	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	198	845	510	443	215	55	18	1	0	0	

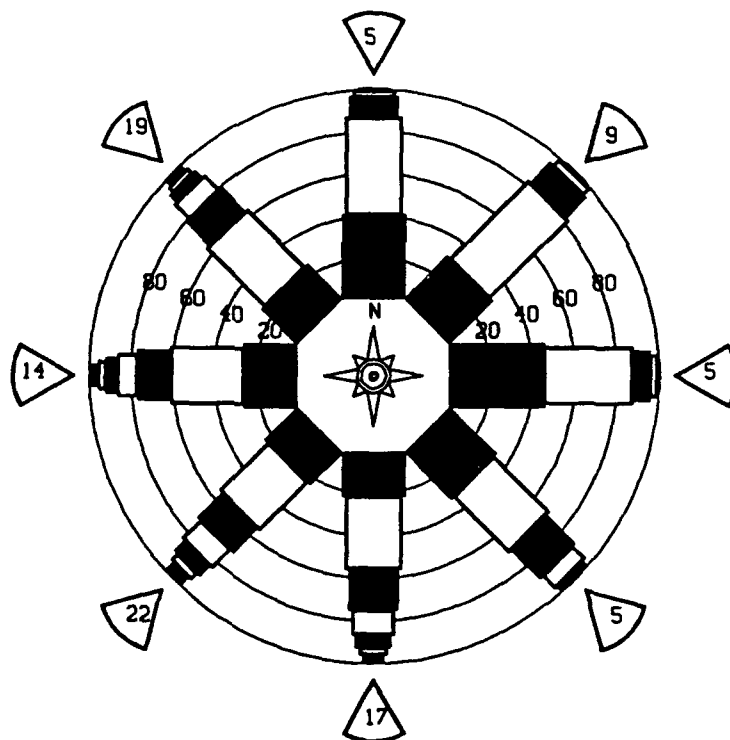
MEAN HS(M) = 0.8 LARGEST HS(M)= 4.9 MEAN TP(SEC)= 4.0 NO. OF CASES= 2151.

STATION H38 45.07N 81.72W FOR ALL DIRECTIONS										
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	644	1329	506	113	4	5	.	.	.	2596
0.50-0.99	.	1284	1470	862	176	62	.	.	.	3797
1.00-1.49	.	.	487	622	420	117	2	.	.	1593
1.50-1.99	.	.	23	376	403	117	10	.	.	929
2.00-2.49	.	.	.	18	265	148	28	.	.	439
2.50-2.99	47	176	46	.	.	270
3.00-3.49	98	51	.	.	151
3.50-3.99	8	80	.	.	90
4.00-4.49	43	.	.	46
4.50-4.99	11	.	.	19
5.00-5.49	1	.	.	10
5.50-5.99	4	1	6
6.00-6.49	2	2
6.50-6.99	1	1
7.00+	0
TOTAL	644	2613	2486	1991	1315	614	272	28	6	0
MEAN HS(M)=	1.0	LARGEST HS(M)=	9.8	MEAN TP(SEC)=	4.4	TOTAL CASES=	93504.			

STATION 38
45.07N, 81.72 W
93504 CASES



OVER 3.0 M
2.5-2.9 M
2.0-2.4 M
1.5-1.9 M
1.0-1.4 M
0.5-0.9 M
0.0-0.4 M



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H38 (45.07N 81.72W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
YEAR													
1956	0.8	1.1	1.2	1.2	1.3	0.9	0.7	0.8	1.0	1.4	1.6	1.4	1.1
1957	1.6	1.3	1.0	1.2	1.1	1.1	0.8	0.7	1.1	1.1	2.2	2.0	1.3
1958	1.4	1.3	0.6	1.1	1.2	1.4	0.9	1.2	1.4	1.5	3.1	1.6	1.3
1959	1.5	1.4	1.5	1.4	1.3	1.1	1.1	1.0	1.3	1.3	1.5	1.3	1.3
1960	1.3	1.4	0.9	1.2	0.9	0.8	0.8	0.8	0.8	1.1	2.0	1.9	1.1
1961	1.3	1.0	1.3	0.9	0.9	1.0	0.9	0.8	1.1	1.4	1.3	1.4	1.1
1962	1.9	1.0	0.8	1.2	0.8	0.7	0.9	0.8	1.2	0.9	1.1	1.4	1.1
1963	1.1	1.0	0.9	1.1	0.9	0.7	0.7	0.7	0.6	0.9	1.2	1.1	0.9
1964	1.8	1.4	1.6	1.6	1.5	1.0	0.9	1.1	1.1	1.1	1.3	1.1	1.3
1965	1.4	1.3	0.9	0.8	1.1	0.9	0.9	0.8	1.0	1.3	1.4	1.0	1.1
1966	1.2	1.0	1.1	1.1	1.1	1.1	0.9	0.8	0.8	1.1	1.0	0.9	1.0
1967	1.1	1.4	0.9	1.1	0.9	0.8	0.9	0.8	0.8	1.1	1.1	1.1	1.1
1968	1.1	1.1	1.1	1.1	0.9	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
1969	1.1	1.1	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1
1970	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1
1971	1.1	1.1	1.1	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1
1972	1.1	1.1	1.1	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1
1973	1.1	1.1	1.1	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1
1974	1.3	0.9	1.1	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1
1975	1.3	1.0	0.9	1.0	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1
1976	1.2	1.3	1.4	1.0	0.9	0.6	0.7	0.6	0.9	0.9	1.1	1.1	1.0
1977	1.0	1.2	0.9	0.9	0.9	0.6	0.7	0.8	0.8	0.9	1.0	1.2	0.9
1978	1.0	0.9	0.9	0.9	0.9	0.8	0.8	1.0	0.8	1.1	1.1	1.1	0.9
1979	0.9	0.9	0.9	0.9	0.9	1.0	0.6	0.6	0.8	0.9	1.2	1.1	0.9
1980	1.1	0.7	1.0	0.8	0.7	0.7	0.5	0.6	0.9	1.0	1.1	1.0	0.8
1981	0.7	1.2	0.8	1.2	0.6	0.6	0.5	0.4	0.7	0.8	0.8	0.8	0.8
1982	1.2	0.8	1.1	1.2	0.5	0.5	0.7	0.7	0.7	0.9	1.0	1.2	0.9
1983	0.9	0.7	0.6	0.8	0.7	0.5	0.6	0.5	0.8	0.9	1.2	1.0	0.9
1984	0.9	0.8	0.9	0.7	0.9	0.7	0.6	0.4	0.9	0.7	1.2	1.2	0.8
1985	0.8	0.8	1.1	0.8	0.7	0.8	0.7	0.6	0.8	0.9	1.0	0.9	0.8
1986	1.0	0.6	1.1	0.8	0.7	0.7	0.6	0.6	0.7	0.7	1.0	0.9	0.8
1987	1.0	0.7	0.7	0.8	0.6	0.6	0.7	0.7	0.6	0.9	1.0	1.1	0.8
MEAN	1.2	1.0	1.0	1.0	0.9	0.8	0.7	0.7	0.9	1.1	1.2	1.2	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H38 (45.07N 81.72W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
YEAR													
1956	3.5	5.9	5.8	4.7	6.2	3.8	2.5	3.6	4.2	5.7	5.8	5.4	
1957	4.0	4.7	4.0	4.2	4.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1958	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1959	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1960	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1961	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1962	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1963	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1964	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1965	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1966	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1967	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1968	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1969	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1970	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1971	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1972	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1973	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1974	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1975	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1976	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1977	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1978	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1979	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1980	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1981	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1982	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1983	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1984	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1985	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1986	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1987	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	

32 YR. STATISTICS FOR WIS STATION H38

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	1.0
MEAN PEAK WAVE PERIOD (SECONDS)	4.4
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	292.5
STANDARD DEVIATION OF WAVE HS (METERS)	0.8
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.5
LARGEST WAVE HS (METERS)	9.8
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	186.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	57121909

STATION H39 44.92N 81.53W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	525	540	156	42	11	.	.	.	.	.	1274
0.50-0.99	.	1079	306	89	73	.	.	.	.	.	1551
1.00-1.49	.	.	271	45	70	23	.	.	.	.	409
1.50-1.99	.	.	69	22	16	14	3	.	.	.	124
2.00-2.49	.	.	.	3	.	2	.	.	.	.	7
2.50-2.99	0
3.00-3.49	1	.	.	.	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	525	1619	802	201	170	43	6	0	0	0	
MEAN HS(M) = 0.6	LARGEST HS(M)= 3.0		MEAN TP(SEC)= 3.4		NO. OF CASES= 3157.						

STATION H39 44.92N 81.53W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	650	651	115	45	3						1464
0.50-0.99		1471	500	29	44	2	.	.	.	.	2046
1.00-1.49	.	.	577	1	9	8	.	.	.	.	595
1.50-1.99	.	.	28	195			.	.	.	.	223
2.00-2.49	.	.	.	19	5		.	.	.	.	24
2.50-2.99	.	.	.		1		.	.	.	.	1
3.00-3.49	.	.	.		1		.	.	.	.	1
3.50-3.99	.	.	.		1	1	.	.	.	.	2
4.00-4.49	.	.	.				.	.	.	.	0
4.50-4.99	.	.	.				.	.	.	.	0
5.00-5.49	.	.	.				.	.	.	.	0
5.50-5.99	.	.	.				.	.	.	.	0
6.00-6.49	.	.	.				.	.	.	.	0
6.50-6.99	.	.	.				.	.	.	.	0
7.00+	.	.	.				.	.	.	.	0
TOTAL	650	2122	1220	289	64	11	0	0	0	0	
MEAN HS(M) = 0.7	LARGEST HS(M)=		3.7	MEAN TP(SEC)=		3.3	NO. OF CASES=				4082.

STATION H39 44.92N 81.53W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	782	635	94	31	5	.	.	.	.	.	1547
0.50-0.99	.	1333	706	13	16	.	.	.	.	.	2068
1.00-1.49	.	.	628	.	.	1	.	.	.	.	629
1.50-1.99	.	.	.	274	.	.	.	.	.	.	278
2.00-2.49	.	.	4	28	5	.	.	.	.	.	33
2.50-2.99	9	.	.	.	.	.	9
3.00-3.49	3	.	.	.	.	.	3
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	782	1968	1432	346	38	1	0	0	0	0	
MEAN HS (M) = 0.7	LARGEST HS (M) = 3.4		MEAN TP (SEC) = 3.3		NO. OF CASES = 4278.						

STATION H39 44.92N 81.53W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	668	517	60	16	1	.	.	.	.	.	1262
0.50-0.99	.	1175	432	3	7	.	.	.	.	.	1611
1.00-1.49	.	.	402	.	.	.	.	.	.	.	402
1.50-1.99	.	.	37	117	.	.	.	.	.	.	154
2.00-2.49	.	.	.	16	3	.	.	.	.	.	19
2.50-2.99	4	.	.	.	.	.	4
3.00-3.49	.	.	.	1	1	.	.	.	.	.	2
3.50-3.99	1	.	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	668	1692	931	153	16	0	0	0	0	0	3240
MEAN HS (M) = 0.6	LARGEST HS (M) =		3.0	MEAN IP (SEC) =		3.2	NO. OF CASES =		3240.		

STATION H39 44.92N 81.53W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	725	566	54	16	1	.	.	.	.	.	1362
0.50-0.99	.	1346	281	3	3	.	.	.	.	.	1633
1.00-1.49	.	.	357	.	.	.	.	.	.	.	357
1.50-1.99	.	.	71	54	.	.	.	.	.	.	125
2.00-2.49	.	.	.	25	.	.	.	.	.	.	25
2.50-2.99	.	.	.	2	3	.	.	.	.	.	5
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	725	1912	763	100	7	0	0	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.7 MEAN TP(SEC)= 3.1 NO. OF CASES= 3284.

STATION H39 44.92N 81.53W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	521	399	35	3	1	.	.	.	.	.	959
0.50-0.99	.	868	280	.	.	.	.	.	.	.	1148
1.00-1.49	.	.	279	.	.	.	.	.	.	.	279
1.50-1.99	.	.	36	88	.	.	.	.	.	.	124
2.00-2.49	.	.	.	20	2	.	.	.	.	.	22
2.50-2.99	4	.	.	.	.	.	4
3.00-3.49	2	.	.	.	.	.	2
3.50-3.99	1	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	521	1267	630	111	9	1	0	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.8 MEAN TP(SEC)= 3.1 NO. OF CASES= 2379.

STATION H39 44.92N 81.53W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	390	281	40	4	.	.	.	.	.	.	715
0.50-0.99	.	648	259	2	.	.	.	.	.	.	909
1.00-1.49	.	.	158	.	.	.	.	.	.	.	158
1.50-1.99	.	.	6	53	.	.	.	.	.	.	59
2.00-2.49	.	.	.	4	.	.	.	.	.	.	4
2.50-2.99	3	.	.	.	.	.	3
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	390	929	463	63	3	0	0	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.9 MEAN TP(SEC)= 3.1 NO. OF CASES= 1732.

STATION H39 44.92N 81.53W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	336	522	38	2	1	1	.	.	.	.	899
0.50-0.99	.	929	334	34	1	.	.	.	.	.	1469
1.00-1.49	.	.	359	32	2	.	.	.	.	.	393
1.50-1.99	.	.	13	137	10	.	.	.	.	.	160
2.00-2.49	.	.	.	18	7	.	.	.	.	.	25
2.50-2.99	2	1	.	.	.	.	3
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	336	1451	944	193	30	2	0	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.2 MEAN TP(SEC)= 3.4 NO. OF CASES= 2772.

STATION H39 44.92N 81.53W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	378	913	113	11	1	.	.	.	.	.	1416
0.50-0.99	.	1101	1552	237	5	3	.	.	.	.	2898
1.00-1.49	.	.	639	857	43	3	1	.	.	.	1543
1.50-1.99	.	.	22	783	243	4	4	.	.	.	1056
2.00-2.49	.	.	.	38	428	12	3	.	.	.	481
2.50-2.99	165	52	3	.	.	.	220
3.00-3.49	4	98	.	1	.	.	103
3.50-3.99	25	6	.	.	.	31
4.00-4.49	2	8	1	.	.	11
4.50-4.99	3	.	.	.	3
5.00-5.49	6	.	.	.	6
5.50-5.99	1	1	.	.	2
6.00-6.49	1	.	.	.	1
6.50-6.99	0
7.00+	0
TOTAL	378	2014	2326	1926	889	199	35	4	0	0	
MEAN HS(M) = 1.1	LARGEST HS(M)=		6.0	MEAN TP(SEC)=		4.2	NO. OF CASES=		7282.		

MEAN HS(M) = 1.1 LARGEST HS(M)= 6.0 MEAN TP(SEC)= 4.2 NO. OF CASES= 7282.

STATION H39 44.92N 81.53W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	378	1226	497	164	18	1					2284
0.50-0.99	.	994	2008	999	150	12		.	.	.	4163
1.00-1.49	.	.	468	1426	434	35	3	.	.	.	2366
1.50-1.99	.	.	7	1083	854	115	6	.	.	.	2065
2.00-2.49	.	.	.	28	1076	205	23	1	.	.	1333
2.50-2.99	375	374	72		.	.	821
3.00-3.49	19	327	101	1	.	.	448
3.50-3.99	90	121	6	2	.	219
4.00-4.49	5	84	7	.	.	96
4.50-4.99	40	10	1	.	91
5.00-5.49	8	17	1	.	26
5.50-5.99	10	.	.	11
6.00-6.49	3	3	.	6
6.50-6.99	2	3	.	5
7.00+	1	.	.	6
TOTAL	378	2220	2980	3700	2926	1164	458	58	16	0	

MEAN HS(M) = 1.3 LARGEST HS(M)= 8.3 MEAN TP(SEC)= 4.9 NO. OF CASES= 13019

STATION H38 44.92N 81.53W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	298	1314	561	124	2						2299
0.50-0.99		849	1725	1376	83	4					4037
1.00-1.49			389	1006	695	16					2106
1.50-1.99			8	560	818	179	6				1571
2.00-2.49				14	598	339	26				977
2.50-2.99					104	462	98				665
3.00-3.49						281	133	2			419
3.50-3.99						31	252	3	1		280
4.00-4.49						2	164	4			170
4.50-4.99							62	31			93
5.00-5.49							9	42	2		53
5.50-5.99							2	27	8		37
6.00-6.49								3	10		13
6.50-6.99									17		17
7.00+									8	4	12
TOTAL	298	2163	2683	3080	2303	1314	752	113	46	4	

MEAN HS(M) = 1.3 LARGEST HS(M)= 8.7 MEAN TP(SEC)= 5.0 NO. OF CASES= 11944

STATION H39 44.92N 81.53W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	280	1010	210	25	1	.	.	.	.	.	1526
0.50-0.99	.	644	1229	635	31	.	.	.	.	.	2539
1.00-1.49	.	2	255	647	295	11	.	.	.	.	1220
1.50-1.99	.	.	4	386	344	83	3	.	.	.	820
2.00-2.49	.	.	.	9	325	140	21	.	.	.	495
2.50-2.99	72	222	37	.	.	.	331
3.00-3.49	1	151	52	.	.	.	205
3.50-3.99	18	126	1	.	.	147
4.00-4.49	65	36	1	.	92
4.50-4.99	4	14	.	.	57
5.00-5.49	25	25	2	.	55
5.50-5.99	18	2	4	.	22
6.00-6.49	5	5	.	7
6.50-6.99	1	1	1	8
7.00+	2	2
TOTAL	280	1656	1708	1702	1069	625	369	69	20	2	

MEAN HS(M) = 1.2 LARGEST HS(M)= 8.8 MEAN TP(SEC)= 4.7 NO. OF CASES= 7029

STATION H39 44.92N 81.53W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	297	1026	207	22	1						1553
0.50-0.99	.	632	1254	587	25	2	.	.	.	.	2500
1.00-1.49	.	1	316	636	252	9	.	.	.	.	1214
1.50-1.99	.	.	4	432	367	56	.	.	.	.	859
2.00-2.49	.	.	.	8	353	155	16	.	.	.	532
2.50-2.99	63	236	27	.	.	.	326
3.00-3.49	180	62	2	.	.	244
3.50-3.99	24	112	1	.	.	137
4.00-4.49	72	.	.	.	73
4.50-4.99	24	.	.	.	34
5.00-5.49	4	18	.	.	22
5.50-5.99	5	.	.	5
6.00-6.49	4	.	.	4
6.50-6.99	1	.	1
7.00+	1
TOTAL	297	1659	1781	1685	1061	662	317	41	2	0	
MEAN HS(M) = 1.2	LARGEST HS(M)=		8.3	MEAN TP(SEC)=		4.7	NO. OF CASES=		7032.		

STATION H39 44.92N 81.53W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	250	1342	836	163	13						2604
0.50-0.99		834	1586	1696	587	12					4725
1.00-1.49		1	364	715	756	226	7				2069
1.50-1.99				571	441	202	37				1258
2.00-2.49			7	17	423	180	64				684
2.50-2.99					102	336	75	2			515
3.00-3.49					3	216	101	5			327
3.50-3.99						16	201				225
4.00-4.49							124	9	3		134
4.50-4.99							42	27	2		71
5.00-5.49							6	31	4		41
5.50-5.99								8	2		10
6.00-6.49								3	5		8
6.50-6.99									1	2	3
7.00+									1	2	3
TOTAL	250	2177	2803	3162	2325	1188	657	92	19	4	
MEAN HS (M) = 1.2	LARGEST HS (M) = 7.4		MEAN TP (SEC) = 4.9		NO. OF CASES = 11872.						

STATION H39 44.92N 81.53W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL	
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER		
0.00-0.49	190	502	948	512	29						2181	
0.50-0.99		582	850	1138	732	34					3336	
1.00-1.49			387	362	351	208	10				1318	
1.50-1.99			16	333	283	102	43				777	
2.00-2.49				14	284	100	35	1			434	
2.50-2.99					44	189	23	2			258	
3.00-3.49						85	52				141	
3.50-3.99						5	63	1	1		70	
4.00-4.49							19	4			23	
4.50-4.99							10	8			18	
5.00-5.49								5			5	
5.50-5.99									2		2	
6.00-6.49											0	
6.50-6.99											0	
7.00+										1	1	
TOTAL	190	1084	2201	2359	1723	723	255	25	3	1		
MEAN HS (M) = 1.0	LARGEST HS (M) = 6.8										MEAN TP (SEC) = 4.9	NO. OF CASES = 8026.

STATION H39 44.92N 81.53W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	251	335	84	18	1	.	.	.	.	.	688
0.50-0.99	.	582	262	74	31	.	.	.	.	.	949
1.00-1.49	.	.	262	119	72	25	2	.	.	.	487
1.50-1.99	.	.	268	96	43	25	2	.	.	.	213
2.00-2.49	.	.	47	7	55	28	6	.	.	.	96
2.50-2.99	14	27	11	.	.	.	52
3.00-3.49	1	13	9	.	.	.	23
3.50-3.99	1	7	.	.	.	8
4.00-4.49	2	2	.	.	4
4.50-4.99	1	.	.	.	2
5.00-5.49	2	.	.	2
5.50-5.99	1	.	.	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	251	917	662	314	217	119	40	5	0	0	
MEAN HS (M) = 0.9	LARGEST HS (M) = 5.5		MEAN TP (SEC) = 4.0		NO. OF CASES = 2376.						

STATION H39 44.92N 81.53W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

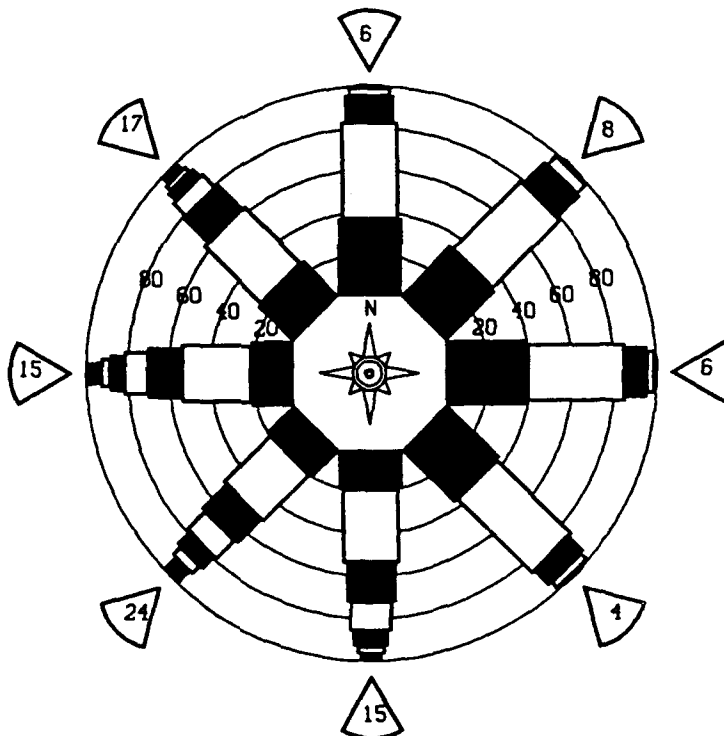
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	692	1178	405	120	9	7	.	.	.	.	2404
0.50-0.99	.	1507	1378	689	179	7	2	.	.	.	3760
1.00-1.49	.	.	613	585	298	57	10	.	.	.	1555
1.50-1.99	.	.	38	519	342	78	19	.	.	.	987
2.00-2.49	.	.	.	27	357	116	35	.	.	.	519
2.50-2.99	97	190	51	.	.	.	322
3.00-3.49	4	135	89	.	.	.	191
3.50-3.99	21	56	3	.	.	112
4.00-4.49	22	10	.	.	59
4.50-4.99	3	7	.	.	32
5.00-5.49	14	.	.	17
5.50-5.99	1	1	.	8
6.00-6.49	2	.	3
6.50-6.99	1	.	2
7.00+	1
TOTAL	692	2685	2434	1940	1286	604	287	38	6	0	93504

MEAN HS(M)= 1.0 LARGEST HS(M)= 8.8 MEAN TP(SEC)= 4.4 TOTAL CASES= 93504.

STATION 39
44.92N, 81.53 W
93504 CASES



OVER 3.0 M
2.5-2.9 M
2.0-2.4 M
1.5-1.9 M
1.0-1.4 M
0.5-0.9 M
0.0-0.4 M



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H39 (44.92N 81.53W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	0.9	1.2	1.2	1.2	1.5	0.9	0.8	0.8	1.1	1.4	1.7	1.6	1.2
1957	1.8	1.4	1.0	1.4	1.2	1.2	0.9	0.8	1.2	1.2	2.3	2.1	1.4
1958	1.5	1.4	0.7	1.1	1.3	1.4	1.0	1.3	1.4	1.5	2.1	1.7	1.4
1959	1.6	1.5	0.6	1.4	1.3	1.1	1.1	1.0	1.4	1.3	2.6	1.4	1.4
1960	1.5	1.4	0.9	1.2	1.0	0.9	0.9	0.9	0.9	1.2	2.1	2.1	1.4
1961	1.4	1.1	0.9	1.0	1.0	1.2	0.8	0.9	1.2	1.5	1.4	1.6	1.4
1962	2.2	2.2	1.1	1.4	1.1	1.1	1.1	0.9	1.3	1.1	1.1	1.1	1.4
1963	1.3	1.2	1.1	1.2	0.8	0.7	0.6	0.7	0.7	1.0	1.3	1.2	1.4
1964	1.9	1.1	1.7	1.1	1.1	1.1	0.7	1.2	1.2	1.3	1.4	1.4	1.4
1965	1.9	1.1	1.0	0.9	1.1	0.9	0.9	0.8	1.1	1.4	1.4	1.1	1.4
1966	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1967	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1968	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1969	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1970	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1971	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1972	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1973	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1974	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1975	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1976	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1977	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1978	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1979	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1980	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1981	0.8	1.3	0.9	0.8	0.6	0.7	0.5	0.5	0.8	0.8	0.8	0.8	0.8
1982	1.3	0.9	1.1	1.3	0.5	0.5	0.7	0.7	0.8	0.8	1.0	1.3	0.8
1983	0.9	0.7	0.6	0.7	0.7	0.5	0.7	0.5	0.8	0.8	0.9	1.1	0.8
1984	1.0	0.9	0.9	0.7	0.9	0.8	0.7	0.5	0.8	0.7	1.2	1.2	0.9
1985	0.9	0.9	0.9	0.9	0.7	0.8	0.8	0.6	0.8	0.9	1.1	1.1	0.9
1986	1.2	0.7	1.1	0.8	0.8	0.7	0.6	0.6	0.7	0.7	1.0	0.9	0.8
1987	1.0	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.8	1.0	1.1	0.7
MEAN	1.3	1.1	1.1	1.1	0.9	0.8	0.8	0.8	0.9	1.1	1.3	1.3	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H39 (44.92N 81.53W)

YEAR	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.4	6.8	8.8	4.7	6.8	3.9	2.6	3.0	5.4	4.8	6.6	6.4	
1957	4.0	6.0	6.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1958	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1959	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1960	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1961	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1962	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1963	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1964	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1965	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1966	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1967	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1968	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1969	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1970	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1971	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1972	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1973	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1974	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1975	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1976	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1977	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1978	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1979	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1980	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1981	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1982	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1983	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1984	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1985	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1986	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
1987	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	

32 YR. STATISTICS FOR WIS STATION H39

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	1.0
MEAN PEAK WAVE PERIOD (SECONDS)	4.4
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	202.5
STANDARD DEVIATION OF WAVE HS (METERS)	0.9
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.5
LARGEST WAVE HS (METERS)	8.8
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	257.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	56031118

STATION H40 44.77N 81.53W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	374	447	126	27	4	.	.	.	.	.	978
0.50-0.99	.	900	579	180	69	.	.	.	.	.	1728
1.00-1.49	.	.	753	178	86	21	1	.	.	.	1039
1.50-1.99	.	.	25	360	42	36	1	.	.	.	464
2.00-2.49	.	.	.	53	35	17	8	1	.	.	114
2.50-2.99	13	5	4	.	.	.	22
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	374	1347	1483	798	249	79	14	1	0	0	4074
MEAN HS (M) = 0.9	LARGEST HS (M) = 2.8		MEAN TP (SEC) = 3.9		NO. OF CASES =		4074				

STATION H40 44.77N 81.53W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	485	620	111	41	3						1260
0.50-0.99		1314	767	93	67	2	.	.	.	.	2243
1.00-1.49	.	.	805	88	20	5	.	.	.	.	918
1.50-1.99	.	.	9	414	3	8	1	.	.	.	435
2.00-2.49	.	.	.	48	38			.	.	.	86
2.50-2.99	.	.	.	.	18			.	.	.	18
3.00-3.49	.	.	.	.	1			.	.	.	1
3.50-3.99	.	.	.	.	1	1		.	.	.	2
4.00-4.49	.	.	.	.		1		.	.	.	1
4.50-4.99	.	.	.	.	.			.	.	.	0
5.00-5.49	.	.	.	.	.			.	.	.	0
5.50-5.99	.	.	.	.	.			.	.	.	0
6.00-6.49	.	.	.	.	.			.	.	.	0
6.50-6.99	.	.	.	.	.			.	.	.	0
7.00+	.	.	.	.	.			.	.	.	0
TOTAL	485	1934	1692	684	151	17	1	0	0	0	4650
MEAN HS (M) = 0.8	LARGEST HS (M) = 4.4		MEAN TP (SEC) = 3.6		NO. OF CASES = 4650						

STATION H40 44.77N 81.53W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	567	608	101	24	3	.	.	.	.	.	1303
0.50-0.99	.	1452	704	50	19	.	.	.	.	.	2225
1.00-1.49	.	.	711	3	5	4	.	.	.	.	723
1.50-1.99	.	.	8	324	1	.	.	.	.	.	334
2.00-2.49	.	.	.	44	6	.	.	.	.	.	50
2.50-2.99	8	.	.	.	.	.	8
3.00-3.49	3	.	.	.	.	.	3
3.50-3.99	0
4.00-4.49	1	.	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	567	2060	1525	445	44	6	0	0	0	0	0
MEAN HS (M) = 0.7	LARGEST HS (M) = 4.0		MEAN TP (SEC) = 3.4		NO. OF CASES = 4353.						

STATION H40 44.77N 81.53W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	515	513	83	26	3	.	.	.	.	.	1140
0.50-0.99	.	1164	438	27	11	.	.	.	.	.	1640
1.00-1.49	.	.	394	.	4	.	.	.	.	.	398
1.50-1.99	.	.	52	125	.	.	.	.	.	.	177
2.00-2.49	.	.	.	24	4	.	.	.	.	.	28
2.50-2.99	5	.	.	.	.	.	5
3.00-3.49	1	.	.	.	.	.	1
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	515	1677	967	202	28	0	0	0	0	0	
MEAN HS (M) = 0.7	LARGEST HS (M) = 3.2		MEAN TP (SEC) = 3.3		NO. OF CASES = 3176.						

STATION H40 44.77N 81.53W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PERCENT OCCURRENCE (PERCENT)										TOTAL
	PEAK PERIOD (SECONDS)										
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	619	608	78	28	3	.	1	.	.	.	1336
0.50-0.99	.	1358	348	23	4	.	.	.	.	.	1734
1.00-1.49	.	.	410	3	.	.	.	.	.	.	413
1.50-1.99	.	.	94	68	.	.	.	.	.	.	162
2.00-2.49	.	.	.	29	.	.	.	.	.	.	29
2.50-2.99	.	.	.	4	2	.	.	.	.	.	6
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00-7.49	0
7.50-7.99	0
8.00-8.49	0
8.50-8.99	0
9.00-9.49	0
9.50-9.99	0
10.00-10.49	0
10.50-10.99	0
11.00-11.49	0
11.50-11.99	0
12.00-12.49	0
12.50-12.99	0
13.00-13.49	0
13.50-13.99	0
14.00-14.49	0
14.50-14.99	0
15.00-15.49	0
15.50-15.99	0
16.00-16.49	0
16.50-16.99	0
17.00-17.49	0
17.50-17.99	0
18.00-18.49	0
18.50-18.99	0
19.00-19.49	0
19.50-19.99	0
20.00-20.49	0
20.50-20.99	0
21.00-21.49	0
21.50-21.99	0
22.00-22.49	0
22.50-22.99	0
23.00-23.49	0
23.50-23.99	.	.									

STATION H40 44.77N 81.53W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	503	432	53	10	1	.	.	.	.	.	999
0.50-0.99	.	919	304	11	3	.	.	.	.	.	1237
1.00-1.49	.	.	262	.	1	1	.	.	.	.	264
1.50-1.99	.	.	40	96	.	.	.	.	.	.	136
2.00-2.49	.	.	.	18	3	.	.	.	.	.	21
2.50-2.99	4	.	.	.	.	.	4
3.00-3.49	2	1	.	.	.	.	2
3.50-3.99	1	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00-7.49	0
7.50-7.99	0
8.00-8.49	0
8.50-8.99	0
9.00-9.49	0
9.50-9.99	0
TOTAL	503	1351	659	135	14	3	0	0	0	0	2498.

MEAN HS(M) = 0.6 LARGEST HS(M) = 4.0 MEAN TP(SEC) = 3.2 NO. OF CASES = 2498.

STATION H40 44.77N 81.53W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	389	293	65	5	2	.	.	.	.	.	754
0.50-0.99	.	761	247	8	3	.	.	.	.	.	1019
1.00-1.49	.	.	178	.	1	1	.	.	.	.	180
1.50-1.99	.	.	7	63	.	.	.	.	.	.	70
2.00-2.49	.	.	.	4	1	.	.	.	.	.	5
2.50-2.99	2	.	.	.	.	.	2
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	389	1054	497	80	9	1	0	0	0	0	1902.
MEAN HS (M) = 0.6	LARGEST HS (M) =		2.9	MEAN TP (SEC) =		3.1	NO. OF CASES =		1902.		

STATION H40 44.77N 81.53W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	350	455	67	7	1	.	.	.	.	.	879
0.50-0.99	.	978	603	4	.	.	.	.	.	.	1586
1.00-1.49	.	.	383	38	.	.	.	.	.	.	421
1.50-1.99	.	.	21	167	4	.	.	.	.	.	192
2.00-2.49	.	.	.	29	19	.	.	.	.	.	48
2.50-2.99	7	.	.	.	.	.	7
3.00-3.49	4	1	.	.	.	.	5
3.50-3.99	0
4.00-4.49	1	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	350	1433	1074	245	35	1	1	0	0	0	2943
MEAN HS (M) = 0.7	LARGEST HS (M) =			4.8	MEAN TP (SEC) =			3.4	NO. OF CASES =		2943

STATION H40 44.77N 81.53W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	350	713	90	7				1			1161
0.50-0.99		1090	1427	45	10	2					2574
1.00-1.49			1013	679	6	3					1701
1.50-1.99			26	924	42	5	1				998
2.00-2.49				47	401	3	5	1			457
2.50-2.99					157		5				162
3.00-3.49					28	41					69
3.50-3.99						13	1				14
4.00-4.49						3					4
4.50-4.99							4				1
5.00-5.49							1				0
5.50-5.99											2
6.00-6.49							2				0
6.50-6.99											0
7.00+											0
TOTAL	350	1803	2556	1702	644	70	22	2	0	0	

MEAN HS(M) = 1.1 LARGEST HS(M)= 6.2 MEAN TP(SEC)= 4.1 NO. OF CASES= 6698.

STATION H40 44.77N 81.53W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	340	828	346	127	16	1					1658
0.50-0.99		912	1736	506	108	17					3279
1.00-1.49		1	891	1211	182	27	2				2314
1.50-1.99			8	1464	441	82	6				2001
2.00-2.49				151	1051	145	22				1369
2.50-2.99					380	298	68				746
3.00-3.49					66	249	81				397
3.50-3.99						69	12				162
4.00-4.49						12	67				80
4.50-4.99						1	33				42
5.00-5.49							8				20
5.50-5.99							2				11
6.00-6.49									1		6
6.50-6.99									4		4
7.00+									1		4
TOTAL	340	1741	2981	3459	2244	901	370	50	7	0	

MEAN HS(M) = 1.4 LARGEST HS(M)= 7.5 MEAN TP(SEC)= 4.6 NO. OF CASES= 11327.

STATION H40 44.77N 81.53W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	259	1030	437	82	2						1810
0.50-0.99		847	1736	1084	60						3727
1.00-1.49			440	1060	456	8					1964
1.50-1.99			5	782	753	98	4				1642
2.00-2.49				13	887	187	14				1101
2.50-2.99					196	529	45				770
3.00-3.49					11	368	86				467
3.50-3.99						48	229				279
4.00-4.49						7	148				159
4.50-4.99							63				79
5.00-5.49							19				51
5.50-5.99							1				18
6.00-6.49									8		16
6.50-6.99									10		11
7.00+									1		10
TOTAL	259	1877	2618	3021	2365	1245	609	78	29	3	

MEAN HS(M) = 1.4 LARGEST HS(M)= 8.3 MEAN TP(SEC)= 5.0 NO. OF CASES= 11341.

STATION H40 44.77N 81.53W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	226	782	175	19							1202
0.50-0.99		675	1217	592	19						2503
1.00-1.49			343	686	284	5					1318
1.50-1.99			4	454	430	60					948
2.00-2.49				10	429	109	12				560
2.50-2.99					84	280	25				390
3.00-3.49					2	204	50				256
3.50-3.99						22	175				200
4.00-4.49						1	90				92
4.50-4.99							52		1		69
5.00-5.49							9		1		39
5.50-5.99									2		12
6.00-6.49									6		16
6.50-6.99									10		4
7.00+									3		3
TOTAL	226	1457	1739	1762	1248	681	414	64	21	0	

MEAN HS(M) = 1.3 LARGEST HS(M)= 7.6 MEAN TP(SEC)= 4.9 NO. OF CASES= 7136.

STATION H40 44.77N 81.53W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	234	789	121	12							1156
0.50-0.99	.	680	1285	511	13	1	.	.	.	.	2490
1.00-1.49	.	1	337	700	199		.	.	.	.	1237
1.50-1.99	.	.	3	442	335	37	.	.	.	.	817
2.00-2.49	.	.	.	7	396	126	5	.	.	.	534
2.50-2.99	71	244	29	.	.	.	344
3.00-3.49	1	178	48	1	.	.	228
3.50-3.99	22	122	1	.	.	145
4.00-4.49	81	3	.	.	84
4.50-4.99	5	12	1	.	48
5.00-5.49	3	18	2	.	21
5.50-5.99	6	.	.	8
6.00-6.49	6	.	.	6
6.50-6.99	1	1	.	2
7.00+	1	3
TOTAL	234	1470	1746	1672	1015	608	323	48	6	1	6678
MEAN HS (M) = 1.3	LARGEST HS (M) = 8.7		MEAN TP (SEC) = 4.7		NO. OF CASES =						

MEAN HS(M) = 1.3 LARGEST HS(M)= 8.7 MEAN TP(SEC)= 4.7 NO. OF CASES= 6678.

STATION H40 44.77N 81.53W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	195	1023	296	43	4	.	.	.	.	.	1561
0.50-0.99	.	829	1494	1071	89	.	.	.	.	.	3493
1.00-1.49	.	1	356	824	609	47	.	.	.	.	1837
1.50-1.99	.	.	9	575	489	136	8	.	.	.	1217
2.00-2.49	.	.	.	16	496	192	37	.	.	.	741
2.50-2.99	128	352	77	.	.	.	557
3.00-3.49	4	263	113	4	.	.	384
3.50-3.99	20	212	4	2	.	288
4.00-4.49	22	.	1	.	133
4.50-4.99	60	.	1	.	82
5.00-5.49	4	21	.	.	43
5.50-5.99	39	5	.	18
6.00-6.49	13	6	.	6
6.50-6.99	2	2	1	3
7.00+	3	.	4
TOTAL	195	1853	2155	2529	1829	1010	639	87	20	2	

MEAN HS(M) = 1.3 LARGEST HS(M)= 7.5 MEAN TP(SEC)= 5.0 NO. OF CASES= 9667.

STATION H40 44.77N 81.53W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	168	527	746	171	3	.	.	.	.	.	1615
0.50-0.99	.	578	1292	1883	604	6	.	.	.	.	4363
1.00-1.49	.	.	382	662	901	187	2	.	.	.	2134
1.50-1.99	.	.	8	487	401	278	39	.	.	.	1213
2.00-2.49	.	.	.	21	445	166	60	.	.	.	692
2.50-2.99	91	244	91	.	.	.	429
3.00-3.49	158	91	.	.	.	286
3.50-3.99	11	148	4	i	.	184
4.00-4.49	82	9	.	.	97
4.50-4.99	28	18	.	.	46
5.00-5.49	2	23	i	.	25
5.50-5.99	4	i	.	2
6.00-6.49	1	i	.	2
6.50-6.99	2	.	2
7.00+	i	2
TOTAL	168	1105	2428	3224	2445	1050	543	71	7	1	

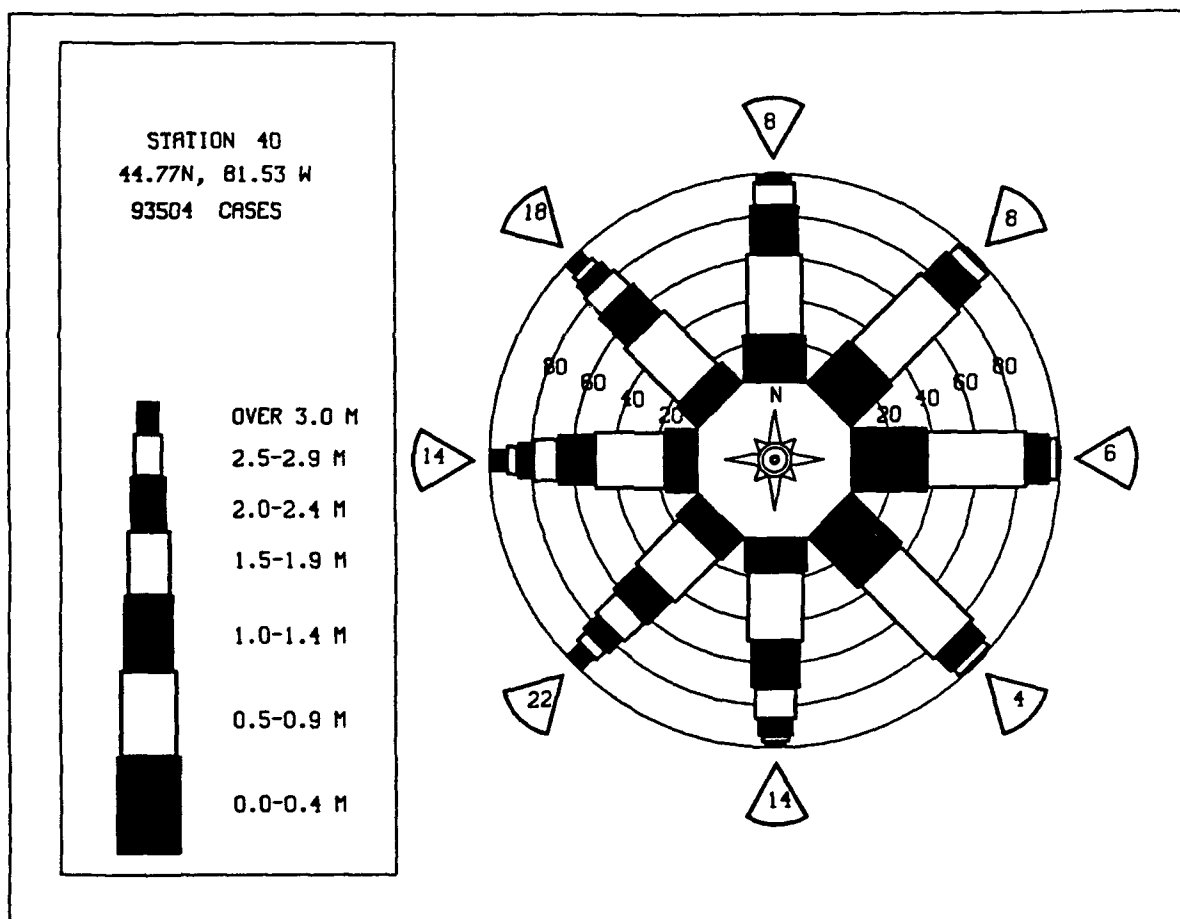
MEAN HS(M) = 1.2 LARGEST HS(M)= 7.1 MEAN TP(SEC)= 5.1 NO. OF CASES= 10345.

STATION H40 44.77N 81.53W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	196	288	99	16	2	.	.	.	.	.	601
0.50-0.99	.	405	487	175	36	.	.	.	.	.	1103
1.00-1.49	.	.	398	260	117	9	.	.	.	.	784
1.50-1.99	.	.	11	348	125	47	7	.	.	.	533
2.00-2.49	.	.	.	42	118	59	13	.	.	.	233
2.50-2.99	37	69	20	.	.	.	126
3.00-3.49	3	26	18	.	.	.	47
3.50-3.99	3	22	1	.	.	26
4.00-4.49	11	1	.	.	12
4.50-4.99	3	2	.	.	5
5.00-5.49	1	2	.	.	3
5.50-5.99	1	1	.	2
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	196	693	995	841	438	213	95	7	1	0	

MEAN HS(M) = 1.1 LARGEST HS(M)= 5.9 MEAN TP(SEC)= 4.5 NO. OF CASES= 3269

STATION H40 44.77N 81.53W FOR ALL DIRECTIONS										
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	577	996	300	65	4	2	.	.	.	1942
0.50-0.99	.	1486	1467	627	113	32	.	.	.	3695
1.00-1.49	.	.	806	639	287	79	6	.	.	1764
1.50-1.99	.	.	33	710	307	32	.	.	.	1135
2.00-2.49	.	.	.	56	433	100	18	.	.	607
2.50-2.99	121	202	36	.	.	359
3.00-3.49	12	149	48	1	.	210
3.50-3.99	21	99	2	.	122
4.00-4.49	2	61	2	.	65
4.50-4.99	28	9	.	37
5.00-5.49	4	15	.	19
5.50-5.99	5	.	6
6.00-6.49	2	.	4
6.50-6.99	2	2
7.00+	2	2
TOTAL	577	2482	2606	2097	1277	587	300	36	7	0
MEAN HS(M)= 1.1 LARGEST HS(M)= 8.7 MEAN TP(SEC)= 4.4 TOTAL CASES= 93504.										



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H40 (44.77N 81.53W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.0	1.2	1.3	1.3	1.5	1.0	0.8	0.9	1.1	1.4	1.7	1.6	1.2
1957	1.1	1.4	1.1	1.4	1.2	1.2	1.0	0.9	1.2	1.2	2.3	2.1	1.4
1958	1.1	1.6	0.7	1.2	1.3	1.5	1.0	1.3	1.4	1.5	2.1	1.7	1.4
1959	1.1	1.5	1.6	1.5	1.4	1.2	1.1	0.0	1.4	1.4	2.7	1.5	1.4
1960	1.1	1.5	1.5	1.3	1.0	1.0	1.0	0.9	1.1	1.3	2.1	2.1	1.4
1961	1.1	1.5	1.5	1.1	1.1	1.2	0.8	0.9	1.2	1.5	1.5	1.6	1.3
1962	2.2	2.2	1.1	1.5	1.1	1.0	1.1	0.9	1.4	1.1	1.2	1.6	1.3
1963	1.1	1.3	1.2	1.4	1.1	0.8	0.9	0.9	0.9	1.1	1.5	1.3	1.1
1964	1.1	1.3	1.1	1.1	1.1	1.1	0.9	0.9	1.1	1.4	1.6	1.3	1.1
1965	1.1	1.3	1.1	1.0	1.1	1.1	0.9	0.9	1.1	1.5	1.5	1.1	1.1
1966	1.1	1.3	1.1	1.1	1.1	1.1	0.9	0.9	1.1	1.5	1.5	1.1	1.1
1967	1.1	1.3	1.1	1.1	1.1	1.1	0.9	0.9	1.1	1.5	1.5	1.1	1.1
1968	1.1	1.3	1.1	1.1	1.1	1.1	0.9	0.9	1.1	1.5	1.5	1.1	1.1
1969	1.1	1.3	1.1	1.1	1.1	1.1	0.9	0.9	1.1	1.5	1.5	1.1	1.1
1970	1.1	1.3	1.1	1.1	1.1	1.1	0.9	0.9	1.1	1.5	1.5	1.1	1.1
1971	1.1	1.3	1.1	1.1	1.1	1.1	0.9	0.9	1.1	1.5	1.5	1.1	1.1
1972	2.0	1.2	1.2	1.0	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.1
1973	1.1	0.9	1.1	1.1	1.1	0.7	0.7	0.7	0.7	1.1	1.4	1.0	1.0
1974	1.3	1.0	1.4	1.1	1.0	0.8	0.8	0.8	1.1	1.2	1.2	1.0	1.0
1975	1.4	1.1	1.1	1.1	0.6	0.8	0.8	0.8	0.8	1.1	1.2	1.0	1.0
1976	1.3	1.6	1.6	1.1	1.0	0.7	0.8	0.8	1.1	1.0	1.3	1.1	1.1
1977	1.3	1.6	1.6	1.1	1.0	0.7	0.8	0.8	0.8	1.1	1.0	1.1	1.1
1978	1.2	0.9	0.9	1.1	0.9	0.9	0.9	0.9	0.9	1.1	1.2	1.4	1.0
1979	1.2	1.0	0.9	1.1	1.0	1.0	0.9	0.9	0.9	1.1	1.1	1.2	1.0
1980	1.2	0.8	1.1	0.9	0.8	0.8	0.6	0.6	1.0	1.3	1.2	1.1	1.0
1981	0.9	1.4	1.1	1.5	0.7	0.8	0.6	0.5	0.9	1.0	1.0	1.0	0.9
1982	1.4	1.0	2.2	1.5	0.5	0.6	0.8	0.8	0.9	1.0	1.2	1.4	1.0
1983	1.0	0.8	0.8	0.9	0.9	0.6	0.7	0.6	0.9	1.0	1.2	1.2	0.9
1984	1.1	1.0	0.0	0.8	1.0	0.9	0.7	0.5	0.9	0.7	1.3	1.3	0.9
1985	1.0	1.0	1.1	1.0	0.9	0.9	0.9	0.6	0.8	1.0	1.0	1.2	0.9
1986	1.4	0.8	1.3	0.9	0.9	0.8	0.6	0.7	0.7	0.7	1.1	1.0	0.9
1987	1.0	0.7	0.7	0.8	0.6	0.6	0.6	0.7	0.6	0.8	1.0	1.1	0.8
MEAN	1.4	1.2	1.2	1.2	1.0	0.9	0.8	0.8	1.0	1.2	1.4	1.4	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H40 (44.77N 81.53W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.2	6.9	8.6	4.7	6.7	3.8	2.7	3.2	5.1	4.8	6.6	6.5	
1957	6.1	5.2	5.0	4.7	4.6	4.7	4.7	4.7	4.7	4.7	4.7	4.7	
1958	5.1	5.2	5.2	5.5	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	
1959	5.1	5.2	5.2	5.5	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	
1960	5.0	5.2	5.2	5.5	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	
1961	5.0	5.2	5.2	5.5	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	
1962	5.1	5.2	5.2	5.5	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	
1963	4.3	6.2	4.1	4.5	3.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1964	6.4	5.7	5.2	6.9	8.1	3.4	3.4	3.4	3.4	3.4	3.4	3.4	
1965	4.9	5.1	5.1	4.4	5.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1966	5.4	5.1	5.1	4.4	5.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1967	6.3	5.1	5.1	4.4	5.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1968	4.1	5.0	4.5	7.0	4.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	
1969	5.6	4.9	4.4	4.4	4.0	3.6	3.6	3.6	3.6	3.6	3.6	3.6	
1970	2.7	5.0	3.3	4.0	4.4	4.1	2.7	2.7	2.7	2.7	2.7	2.7	
1971	7.0	8.3	5.0	4.2	4.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1972	5.8	4.4	4.4	3.4	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1973	4.6	3.3	3.3	3.4	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
1974	7.0	7.7	3.6	3.5	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
1975	6.5	5.4	5.4	3.3	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
1976	5.1	5.4	5.4	3.3	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
1977	3.9	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
1978	3.9	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
1979	3.9	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
1980	3.9	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
1981	4.8	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
1982	4.7	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
1983	3.4	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
1984	4.4	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
1985	3.1	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
1986	3.9	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
1987	3.9	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	

32 YR. STATISTICS FOR WIS STATION H40

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	1.1
MEAN PEAK WAVE PERIOD (SECONDS)	4.4
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	225.0
STANDARD DEVIATION OF WAVE HS (METERS)	0.9
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.5
LARGEST WAVE HS (METERS)	8.7
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	10.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	274.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	59012212

STATION H41 44.63N 81.53W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	357	443	122	21	3	.	.	.	.	.	846
0.50-0.99	.	553	827	229	67	.	.	.	.	.	1676
1.00-1.49	.	.	605	420	114	17	.	.	.	.	1156
1.50-1.99	.	.	5	672	53	42	6	.	.	.	778
2.00-2.49	.	.	.	29	242	24	12	.	.	.	307
2.50-2.99	57	6	7	1	.	.	91
3.00-3.49	2	14	3	.	.	.	19
3.50-3.99	1	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	357	996	1559	1371	538	103	28	1	1	0	
MEAN HS(M) = 1.0 LARGEST HS(M)= 3.8 MEAN TP(SEC)= 4.2 NO. OF CASES= 4647.											

MEAN HS(M) = 1.0 LARGEST HS(M)= 3.8 MEAN TP(SEC)= 4.2 NO. OF CASES= 4647.

STATION H41 44.63N 81.53W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	404	581	116	42	5	.	.	.	.	.	1148
0.50-0.99	.	1148	936	176	62	.	.	.	.	.	2322
1.00-1.49	.	.	656	160	42	9	.	.	.	.	867
1.50-1.99	.	.	7	428	7	8	1	.	.	.	451
2.00-2.49	.	.	.	35	122	.	.	.	.	.	157
2.50-2.99	34	1	.	.	.	.	35
3.00-3.49	4	9	.	.	.	.	13
3.50-3.99	1	1	.	.	.	.	2
4.00-4.49	2	.	.	.	.	1
4.50-4.99	1	.	.	.	.	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	404	1729	1715	841	277	31	1	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.5 MEAN TP(SEC)= 3.8 NO. OF CASES= 4685.

STATION H41 44.63N 81.53W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	468	608	98	23	5	.	.	.	.	.	1203
0.50-0.99	.	1405	764	78	31	.	.	.	.	.	2278
1.00-1.49	.	.	703	37	14	6	.	.	.	.	760
1.50-1.99	.	.	23	355	6	2	.	.	.	.	386
2.00-2.49	.	.	.	48	14	.	.	.	.	.	63
2.50-2.99	7	.	.	.	.	.	7
3.00-3.49	4	.	.	.	.	.	4
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	468	2013	1589	542	81	8	0	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 3.3 MEAN TP(SEC)= 3.5 NO. OF CASES= 4404.

STATION H41 44.63N 81.53W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	442	539	83	20	3						1087
0.50-0.99		1145	458	49	22	1					1675
1.00-1.49			389		4	2					395
1.50-1.99			48	122							170
2.00-2.49				29	7						36
2.50-2.99				1	4						5
3.00-3.49					3						3
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	442	1684	978	221	43	3	0	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.2 MEAN TP(SEC)= 3.3 NO. OF CASES= 3159.

STATION H41 44.63N 81.53W AZIMUTH(DEGREES) = 90.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	581	688	86	32	1	.	.	.	.	.	1388
0.50-0.99	.	1402	367	53	12	.	.	.	.	.	1834
1.00-1.49	.	.	425	4	1	.	1	.	.	.	431
1.50-1.99	.	.	95	74	1	1	.	.	.	.	171
2.00-2.49	.	.	.	32	.	.	.	.	.	.	32
2.50-2.99	.	.	.	3	1	.	.	.	.	.	4
3.00-3.49	1	.	.	.	.	.	1
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	581	2090	973	198	17	1	1	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.1 MEAN TP(SEC)= 3.2 NO. OF CASES= 3617.

STATION H41 44.63N 81.53W AZIMUTH(DEGREES) =112.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	494	466	68	14	1	.	.	.	.	.	1043
0.50-0.99	.	984	342	27	3	.	.	.	.	.	1356
1.00-1.49	.	.	269	1	1	1	.	.	.	.	272
1.50-1.99	.	.	33	102	.	.	.	.	.	.	135
2.00-2.49	.	.	.	17	3	.	.	.	.	.	20
2.50-2.99	4	.	.	.	.	.	4
3.00-3.49	2	.	.	.	.	.	2
3.50-3.99	1	.	.	.	.	1
4.00-4.49	1	.	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	494	1450	712	161	14	3	0	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 4.0 MEAN TP(SEC)= 3.2 NO. OF CASES= 2656.

STATION H41 44.63N 81.53W AZIMUTH(DEGREES) =135.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	419	341	88	13	3	.	.	.	.	.	864
0.50-0.99	.	839	318	22	8	.	.	.	.	.	1187
1.00-1.49	.	.	204	.	1	.	.	.	.	.	205
1.50-1.99	.	.	11	68	.	.	.	.	.	.	79
2.00-2.49	.	.	.	5	1	.	.	.	.	.	6
2.50-2.99	2	.	.	.	.	.	2
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	419	1180	621	108	15	0	0	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.9 MEAN TP(SEC)= 3.2 NO. OF CASES= 2197.

STATION H41 44.63N 81.53W AZIMUTH(DEGREES) =157.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	375	466	95	17	.	.	.	.	.	.	953
0.50-0.99	.	1024	623	36	4	.	.	.	.	.	1687
1.00-1.49	.	.	436	13	.	1	.	.	.	.	450
1.50-1.99	.	.	28	201	1	.	.	.	.	.	230
2.00-2.49	.	.	.	34	7	.	.	.	.	.	41
2.50-2.99	8	.	.	.	.	.	8
3.00-3.49	3
3.50-3.99	1	.	.	.	.	1
4.00-4.49	1	.	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	375	1490	1182	301	23	3	0	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 4.0 MEAN TP(SEC)= 3.4 NO. OF CASES= 3161.

STATION H41 44.63N 81.53W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	363	582	102	17							1064
0.50-0.99		1301	861	62	14	2	.	.	.	.	2240
1.00-1.49	.	.	1236	199	5		.	.	.	.	1443
1.50-1.99	.	.	23	735		3					764
2.00-2.49	.	.	.	141	105		3				254
2.50-2.99	.	.	.	1	82	.	2				85
3.00-3.49	.	.	.	.	14						14
3.50-3.99	.	.	.	.	2						5
4.00-4.49	.	.	.	.		4	.	.	.	.	5
4.50-4.99	.	.	.	.		5	.	.	.	.	5
5.00-5.49	.	.	.	.	.	.	2	.	.	.	2
5.50-5.99	.	.	.	.	.	.	.	.	.	.	0
6.00-6.49	.	.	.	.	.	.	.	.	.	.	0
6.50-6.99	.	.	.	.	.	.	.	.	.	.	0
7.00+	.	.	.	.	.	.	.	.	.	.	0
TOTAL	363	1883	2222	1155	222	17	16	0	0	0	5508.
MEAN HS (M) = 1.0	LARGEST HS (M) =		5.2	MEAN TP (SEC) =		3.9	NO. OF CASES =		5508.		

STATION H41 44.63N 81.53W AZIMUTH(DEGREES) -202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	322	683	305	98	17	2					1427
0.50-0.99		1301	1425	395	103	17	1				3242
1.00-1.49			614	133	41	1					2441
1.50-1.99			1652	1393	358	111	10				1921
2.00-2.49			49	317	481	128	57				983
2.50-2.99				4	255	185	73				517
3.00-3.49					55	125	41	5			226
3.50-3.99					6	31	60	4			101
4.00-4.49						7	54	3			64
4.50-4.99							22	4		1	27
5.00-5.49						1	1				18
5.50-5.99						1	16				9
6.00-6.49							3				4
6.50-6.99							3		1		1
7.00+							1				1
TOTAL	322	1984	3431	2821	1408	648	324	41	2	1	
MEAN HS (M) = 1.3	LARGEST HS (M) = 7.1		MEAN TP (SEC) = 4.6		NO. OF CASES = 10288.						

STATION H41 44.63N 81.53W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	267	889	429	56	3	.	.	.	.	.	1644
0.50-0.99	.	850	1571	924	77	1	.	.	.	.	3423
1.00-1.49	.	1	739	940	330	12	1	.	.	.	2023
1.50-1.99	.	.	9	978	674	67	2	.	.	.	1730
2.00-2.49	.	.	.	78	863	175	18	.	.	.	1134
2.50-2.99	249	474	32	.	.	.	755
3.00-3.49	17	304	72	.	.	.	394
3.50-3.99	2	60	189	1	.	.	254
4.00-4.49	5	115	3	.	.	127
4.50-4.99	1	15	10	1	.	66
5.00-5.49	13	18	2	.	33
5.50-5.99	1	16	4	.	21
6.00-6.49	2	9	6	.	17
6.50-6.99	11	.	11
7.00+	5	1	6
TOTAL	267	1740	2748	2976	2215	1099	503	60	29	1	
MEAN HS(M) = 1.4	LARGEST HS(M) = 8.5		MEAN TP(SEC) = 4.9		NO. OF CASES = 10900.						

STATION H41 44.63N 81.53W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	236	812	242	32							1322
0.50-0.99		689	1348	705	29	.	.	.	.	.	2771
1.00-1.49		.	401	801	302	4	.	.	.	.	1508
1.50-1.99		.	8	556	481	59	.	.	.	.	1104
2.00-2.49		.	.	13	514	105	17	.	.	.	649
2.50-2.99		.	.	.	113	289	22	.	.	.	424
3.00-3.49		.	.	.	.	234	51	.	.	.	288
3.50-3.99		.	.	.	.	39	159	2	1	.	201
4.00-4.49		.	.	.	.	1	199	.	.	.	110
4.50-4.99		.	.	.	.	.	54	10	1	.	55
5.00-5.49		.	.	.	.	.	11	20	1	.	52
5.50-5.99		.	.	.	.	.	1	17	3	.	21
6.00-6.49		.	.	.	.	.	.	4	6	.	10
6.50-6.99		.	.	.	.	.	.	1	2	.	3
7.00+		.	.	.	.	.	.	.	5	1	6
TOTAL	236	1501	1999	2107	1442	731	424	54	19	1	
MEAN HS(M) = 1.3	LARGEST HS(M) = 7.8		MEAN TP(SEC) = 4.9		NO. OF CASES = 7978.						

STATION H41 44.63N 81.53W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	226	756	178	14	25	.	.	.	.	.	1174
0.50-0.99	.	707	1328	573	239	5	.	.	.	.	2633
1.00-1.49	.	.	386	724	239	5	.	.	.	.	1354
1.50-1.99	.	.	.	469	374	39	1	.	.	.	884
2.00-2.49	.	.	1	14	416	140	11	.	.	.	581
2.50-2.99	88	262	31	.	.	.	381
3.00-3.49	1	197	57	2	.	.	257
3.50-3.99	29	135	.	.	.	164
4.00-4.49	116	.	.	.	112
4.50-4.99	3	.	.	.	56
5.00-5.49	16	1	.	23
5.50-5.99	19	1	.	10
6.00-6.49	7	3	.	10
6.50-6.99	1	1	.	2
7.00+	2	2	4
TOTAL	226	1463	1893	1794	1143	672	389	54	9	2	7164
MEAN HS(M) = 1.3	LARGEST HS(M)=		8.7	MEAN TP(SEC)=		4.8	NO. OF CASES=		7164.		

STATION H41 44.63N 81.53W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	198	945	243	28							1414
0.50-0.99	.	804	1437	781	77	.	.	.	.	.	3099
1.00-1.49	.	2		884	430	26	2	.	.	.	1714
1.50-1.99	.	.	370	561	486	88	6	.	.	.	1149
2.00-2.49	.	.	8	16	481	171	24	1	.	.	692
2.50-2.99	136	348	65	.	.	.	550
3.00-3.49	4	257	98	7	.	.	366
3.50-3.99	27	205	2	2	.	237
4.00-4.49	134	.	.	.	136
4.50-4.99	58	24	.	.	82
5.00-5.49	5	26	.	.	31
5.50-5.99	11	5	.	17
6.00-6.49	6	1	7
6.50-6.99	4	.	4
7.00+	3	2	5
TOTAL	198	1751	2058	2270	1614	917	597	74	20	3	
MEAN HS (M) = 1.4	LARGEST HS (M) = 7.7		MEAN TP (SEC) = 5.0		NO. OF CASES = 8905.						

STATION H41 44.63N 81.53W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	180	510	466	110	2	.	.	.	.	.	1268
0.50-0.99	.	613	1340	1713	429	.	.	.	.	.	4095
1.00-1.49	.	.	298	742	981	171	.	.	.	.	2192
1.50-1.99	.	.	6	532	544	301	36	.	.	.	1419
2.00-2.49	.	.	.	16	484	240	84	.	.	.	824
2.50-2.99	98	302	100	5	.	.	505
3.00-3.49	2	219	120	11	.	.	352
3.50-3.99	14	189	8	.	.	212
4.00-4.49	100	5	3	.	108
4.50-4.99	31	35	1	.	67
5.00-5.49	1	26	.	.	27
5.50-5.99	10	5	.	15
6.00-6.49	2	2	.	4
6.50-6.99	2	1	3
7.00+	2	2
TOTAL	180	1123	2110	3113	2540	1247	661	102	14	3	10390

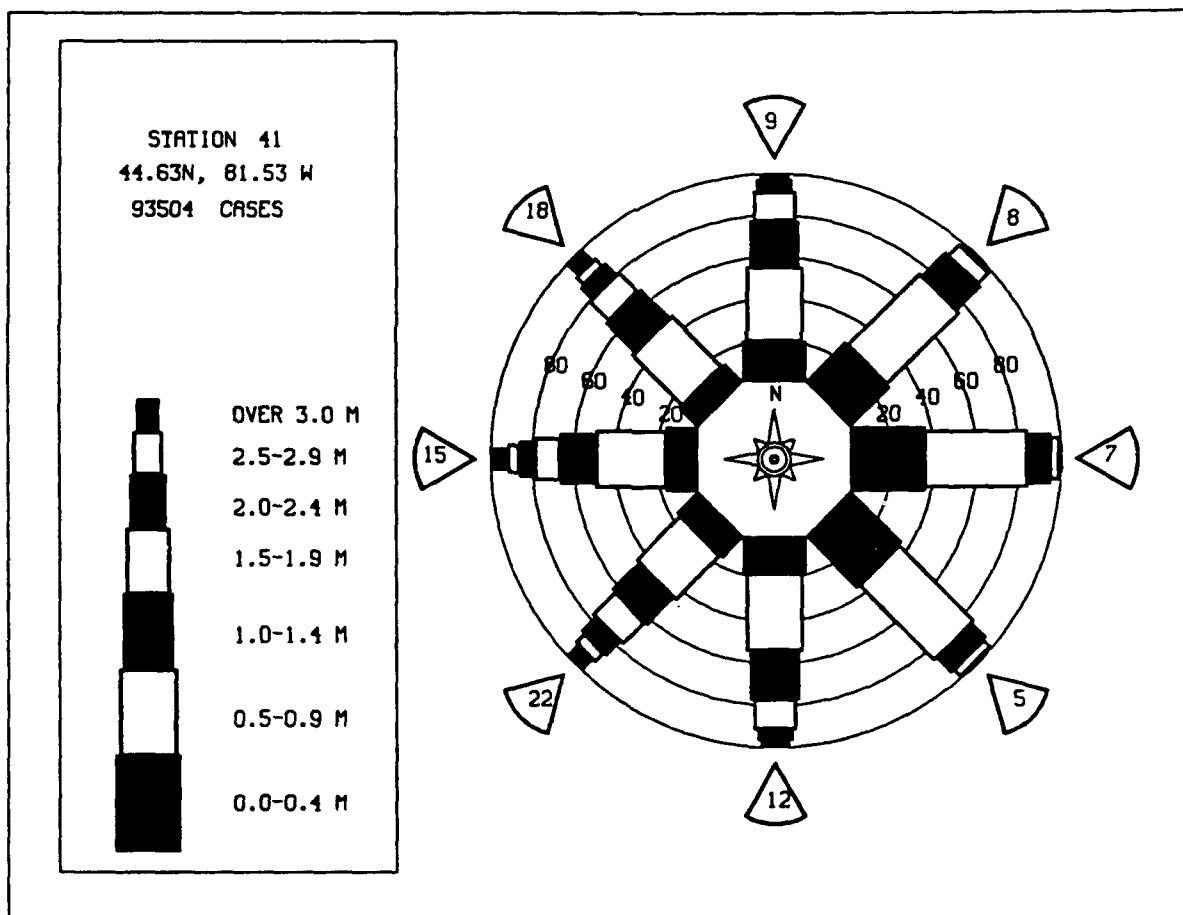
STATION H41 44.63N 81.53W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	154	276	117	24	2	.	.	.	.	.	573
0.50-0.99	.	300	587	233	55	.	.	.	.	.	1185
1.00-1.49	.	1	332	408	173	14	.	.	.	.	928
1.50-1.99	.	.	3	435	178	63	11	.	.	.	690
2.00-2.49	.	.	.	22	250	68	24	1	.	.	364
2.50-2.99	62	101	31	1	.	.	195
3.00-3.49	6	56	25	1	.	.	88
3.50-3.99	3	34	1	.	.	37
4.00-4.49	18	1	.	.	19
4.50-4.99	3	5	1	.	9
5.00-5.49	1	4	1	.	7
5.50-5.99	3	1	.	4
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	154	577	1049	1122	726	305	147	15	2	0	
MEAN HS(M) = 1.3	LARGEST HS(M)=		5.9	MEAN TP(SEC)=		4.8	NO. OF CASES=		3845.		

STATION H41 44.63N 81.53W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	549	959	284	56	4	.	.	.	.	.	1852
0.50-0.99	.	1507	1455	606	102	2	.	.	.	.	3672
1.00-1.49	.	.	910	595	277	31	.	.	.	.	1813
1.50-1.99	.	.	36	768	316	78	7	.	.	.	1205
2.00-2.49	.	.	.	85	399	105	26	.	.	.	615
2.50-2.99	120	197	36	.	.	.	353
3.00-3.49	12	142	47	2	.	.	203
3.50-3.99	1	21	97	2	.	.	121
4.00-4.49	2	64	1	.	.	67
4.50-4.99	26	10	.	.	36
5.00-5.49	3	13	.	.	16
5.50-5.99	7	.	.	9
6.00-6.49	2	.	.	4
6.50-6.99	2	.	2
7.00+	1	.	1
TOTAL	549	2466	2685	2110	1231	578	306	37	7	0	93504

MEAN HS(M)= 1.1 LARGEST HS(M)= 8.7 MEAN TP(SEC)= 4.4 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H41 (44.63N 81.53W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	1.0	1.2	1.3	1.3	1.5	1.0	0.8	0.9	1.1	1.3	1.7	1.6	1.2
1957	1.8	1.4	1.1	1.4	1.2	1.2	1.0	0.9	1.2	1.2	2.3	2.1	1.4
1958	1.6	1.7	0.8	1.2	1.3	1.5	1.0	1.3	1.4	1.5	2.1	1.7	1.4
1959	1.8	1.5	1.6	1.5	1.3	1.2	1.1	1.0	1.4	1.4	1.7	1.5	1.4
1960	1.5	1.1	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.3	2.0	2.1	1.3
1961	1.5	1.2	1.5	1.1	1.1	1.2	0.8	0.9	1.2	1.4	1.5	1.6	1.1
1962	2.1	1.3	1.0	1.6	1.1	1.0	1.1	0.9	1.4	1.1	1.2	1.3	1.3
1963	1.5	1.4	1.3	1.5	1.1	0.8	0.9	0.9	0.9	1.1	1.5	1.3	1.2
1964	1.8	1.1	1.1	1.6	1.7	1.1	0.9	0.9	1.3	1.4	1.1	1.5	1.1
1965	1.8	1.1	1.1	1.0	1.2	1.0	0.9	1.0	1.1	1.5	1.6	1.5	1.1
1966	1.7	1.1	1.1	1.1	1.4	1.1	0.9	1.1	1.1	1.8	1.1	1.3	1.1
1967	1.6	1.1	0.9	1.1	0.9	0.9	0.9	1.0	1.1	1.4	1.1	1.1	1.1
1968	1.5	1.1	1.1	1.1	0.9	0.9	0.9	0.9	1.0	1.1	1.1	1.1	1.1
1969	1.5	1.1	1.1	1.1	0.9	0.9	0.9	0.9	1.0	1.1	1.1	1.1	1.1
1970	2.0	1.1	1.1	1.1	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1	1.1
1971	2.0	1.1	1.1	1.1	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1	1.1
1972	2.0	1.1	1.1	1.1	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1	1.1
1973	1.7	0.9	1.1	1.1	0.7	0.9	0.7	0.9	0.9	1.0	1.1	1.1	1.1
1974	1.3	1.0	1.4	1.2	1.0	0.8	0.8	0.7	1.0	1.2	1.1	1.1	1.1
1975	1.4	1.1	1.1	1.1	0.6	0.8	0.9	0.8	0.9	1.2	1.1	1.1	1.1
1976	1.3	1.1	1.6	1.1	1.0	0.7	0.8	0.8	1.0	1.1	1.1	1.1	1.1
1977	1.4	1.1	1.1	1.1	0.8	0.8	0.8	0.8	1.0	1.1	1.1	1.1	1.1
1978	1.3	0.9	0.9	1.2	0.9	0.9	0.9	0.8	0.8	1.1	1.1	1.1	1.1
1979	1.3	1.1	1.1	1.1	0.8	1.0	0.8	0.8	0.8	0.9	1.1	1.1	1.1
1980	1.2	0.9	1.2	0.9	0.8	0.9	0.6	0.6	1.0	1.3	1.3	1.1	1.1
1981	1.0	1.1	1.1	1.1	0.8	0.8	0.6	0.6	1.0	0.9	1.1	1.1	1.1
1982	1.5	1.2	1.2	1.3	0.6	0.6	0.8	0.9	0.9	1.0	1.1	1.1	1.1
1983	1.1	0.9	0.8	1.0	0.9	0.6	0.7	0.6	0.9	1.0	1.1	1.1	1.1
1984	1.1	1.0	1.0	0.8	1.0	0.9	0.7	0.6	0.9	0.7	1.1	1.1	1.1
1985	1.1	1.0	1.2	1.0	0.9	0.9	0.9	0.6	0.9	1.0	1.1	1.1	1.1
1986	1.4	0.8	1.3	1.0	0.9	0.8	0.7	0.7	0.7	0.7	1.2	1.0	0.9
1987	1.0	0.7	0.7	0.8	0.6	0.6	0.6	0.6	0.5	0.8	1.0	1.1	0.8
MEAN	1.5	1.3	1.2	1.2	1.0	0.9	0.8	0.8	1.0	1.2	1.4	1.4	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H41 (44.63N 81.53W)

YEAR	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.1	7.0	8.4	4.4	6.5	3.8	2.5	3.2	4.4	4.6	6.2	6.4	
1957	6.0	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	
1958	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	
1959	8.7	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	
1960	7.1	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1961	5.1	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1962	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1963	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1964	6.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1965	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1966	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1967	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1968	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1969	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1970	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1971	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1972	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1973	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1974	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1975	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1976	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1977	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1978	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1979	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1980	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1981	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1982	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1983	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1984	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1985	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1986	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1987	6.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	

32 YR. STATISTICS FOR WIS STATION H41

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	1.1
MEAN PEAK WAVE PERIOD	(SECONDS)	4.4
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	225.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.9
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.5
LARGEST WAVE HS	(METERS)	8.7
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	10.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	275.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		59012212

STATION H42 44.48N 81.53W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	344	473	140	22	4	.	.	.	.	.	983
0.50-0.99	.	550	883	342	198	.	.	.	.	.	1873
1.00-1.49	.	.	259	606	178	31	.	.	.	.	1074
1.50-1.99	.	.	3	609	202	31	.	.	.	.	854
2.00-2.49	.	.	.	10	324	28	11	.	.	.	373
2.50-2.99	118	29	9	1	.	.	157
3.00-3.49	1	45	3	.	.	.	49
3.50-3.99	8	2	1	.	.	11
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	344	1023	1285	1589	925	172	34	3	0	0	5039

MEAN HS(M) = 1.1 LARGEST HS(M)= 4.0 MEAN TP(SEC)= 4.4 NO. OF CASES= 5039.

STATION H42 44.48N 81.53W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	393	547	145	41	3	.	.	.	.	.	1129
0.50-0.99	.	1126	925	263	78	.	.	.	.	.	2393
1.00-1.49	.	.	497	235	43	19	.	.	.	.	794
1.50-1.99	.	.	20	355	62	2	.	.	.	.	439
2.00-2.49	.	.	.	36	144	2	.	.	.	.	182
2.50-2.99	51	14	.	.	.	.	65
3.00-3.49	3	17	.	.	.	.	20
3.50-3.99	1	9	.	.	.	.	10
4.00-4.49	1	.	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	393	1673	1588	930	385	64	0	0	0	0	4714

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.2 MEAN TP(SEC)= 3.9 NO. OF CASES= 4714.

STATION H42 44.48N 81.53W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	406	638	122	28	3	.	.	.	.	.	1197
0.50-0.99	.	1350	770	114	44	2	.	.	.	.	2280
1.00-1.49	.	.	672	56	27	5	.	.	.	.	760
1.50-1.99	.	.	26	317	17	6	.	.	.	.	366
2.00-2.49	.	.	.	52	14	1	.	.	.	.	67
2.50-2.99	11	.	.	.	.	.	11
3.00-3.49	3	.	.	.	.	.	3
3.50-3.99	1	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	406	1988	1590	567	119	15	0	0	0	0	4392

MEAN HS(M) = 0.8 LARGEST HS(M)= 3.7 MEAN TP(SEC)= 3.6 NO. OF CASES= 4392.

STATION H42 44.48N 81.53W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	441	570	103	24	2	1	.	.	.	.	1141
0.50-0.99	.	1158	441	87	28	1	.	.	.	.	1715
1.00-1.49	.	.	381	7	8	1	.	.	.	.	387
1.50-1.99	.	.	47	120	4	1	.	.	.	.	168
2.00-2.49	.	.	.	29	3	.	.	.	.	.	34
2.50-2.99	.	.	.	1	.	.	.	.	.	.	9
3.00-3.49	3
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	441	1728	972	268	54	4	0	0	0	0	3251

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.1 MEAN TP(SEC)= 3.4 NO. OF CASES= 3251.

STATION H42 44.48N 81.53W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	619	749	100	35	2	1	.	.	.	.	1505
0.50-0.99	.	1440	386	65	22	.	.	.	.	.	1914
1.00-1.49	.	.	409	7	2	2	1	.	.	.	421
1.50-1.99	.	.	96	66	.	.	.	.	.	.	162
2.00-2.49	.	.	.	32	.	.	.	.	.	.	32
2.50-2.99	.	.	.	3	1	.	.	.	.	.	4
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	619	2189	991	208	27	3	1	0	0	0	
MEAN HS(M) = 0.6	LARGEST HS(M)= 2.7		MEAN TP(SEC)= 3.2		NO. OF CASES= 3781.						

STATION H42 44.48N 81.53W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	537	514	86	22	1						1160
0.50-0.99		1107	374	45	6	1	1				1534
1.00-1.49			286	3	4						293
1.50-1.99			56	65							121
2.00-2.49				13							13
2.50-2.99					2						2
3.00-3.49					2						2
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	537	1621	802	148	15	1	1	0	0	0	
MEAN HS(M) = 0.6	LARGEST HS(M)=		3.4	MEAN TP(SEC)=		3.2	NO. OF CASES=		2930.		

STATION H42 44.48N 81.53W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	525	464	137	26	3	.	.	.	.	.	1155
0.50-0.99	.	992	462	60	10	.	.	.	.	.	1524
1.00-1.49	.	.	274	1	1	.	.	.	.	.	276
1.50-1.99	.	.	10	87	.	.	.	.	.	.	97
2.00-2.49	.	.	.	6	1	.	.	.	.	.	7
2.50-2.99	2	.	.	.	.	.	2
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	525	1456	883	180	17	0	0	0	0	0	
MEAN HS(M) = 0.6	LARGEST HS(M)= 2.9		MEAN TP(SEC)= 3.3		NO. OF CASES= 2869.						

STATION H42 44.48N 81.53W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	389	447	160	34							1030
0.50-0.99		1001	452	112	10	1					1576
1.00-1.49			393		3	1					397
1.50-1.99			40	141							181
2.00-2.49				37	2						39
2.50-2.99				1	7						8
3.00-3.49					3						3
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	389	1448	1045	325	25	2	0	0	0	0	
MEAN HS(M) = 0.7	LARGEST HS(M) = 3.2		MEAN TP(SEC) = 3.4		NO. OF CASES = 3029.						

STATION H42 44.48N 81.53W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PERCENT OCCURRENCE										TOTAL
	PEAK PERIOD (SECONDS)										
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49				34	1						1294
0.50-0.99	454	649	156	132	28	1					2090
1.00-1.49		1480	449	1	3	1	1				551
1.50-1.99			545	1							547
2.00-2.49			224	116			2				355
2.50-2.99				55							16
3.00-3.49				4	12						16
3.50-3.99					2						2
4.00-4.49					2						2
4.50-4.99					1	1					1
5.00-5.49						1					1
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	454	2129	1374	342	49	4	3	0	0	0	4079.

STATION H42 44.48N 81.53W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49											1573
0.50-0.99	404	731	296	119	23						3743
1.00-1.49		2398	735	447	136	27	.	.	.	.	1662
1.50-1.99			1051	317	172	113	9	.	.	.	1037
2.00-2.49			451	329	127	70	60	.	.	.	397
2.50-2.99				1	159	37	40	2	.	.	153
3.00-3.49					19	29	7	4	.	.	20
3.50-3.99						11	33	28	.	.	23
4.00-4.49						1	10	39	.	.	13
4.50-4.99							1	20	2	.	7
5.00-5.49								4	5	.	4
5.50-5.99								1	2	1	0
6.00-6.49										.	0
6.50-6.99										.	0
7.00+										.	0
TOTAL	404	3129	2534	1390	657	385	215	19	1	0	
MEAN HS(M) = 1.0	LARGEST HS(M)=		5.9	MEAN TP(SEC)=		4.1	NO. OF CASES=		8185.		

STATION H42 44.48N 81.53W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	351	860	488	111	2						1812
0.50-0.99		1294	1411	850	138	6					3759
1.00-1.49			891	810	406	95	4				2206
1.50-1.99			109	872	482	109	23				1595
2.00-2.49				121	585	130	27				863
2.50-2.99				8	190	278	16				493
3.00-3.49					16	170	78				285
3.50-3.99					3	41	120	1			165
4.00-4.49						4	66	1			71
4.50-4.99							32	14			36
5.00-5.49							5	18	3		26
5.50-5.99								6	2		8
6.00-6.49									6		6
6.50-6.99									2		2
7.00-7.49									1	4	5
TOTAL	351	2154	2899	2772	1882	833	361	42	14		10595.
MEAN HS(M) = 1.2	LARGEST HS(M)=			7.5	MEAN TP(SEC)=			4.7	NO. OF CASES=		

STATION H42 44.48N 81.53W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	269	893	409	78	3	.	.	.	.	.	1652
0.50-0.99	.	776	1357	803	89	.	.	.	.	.	3025
1.00-1.49	.	2	500	745	346	20	.	.	.	.	1613
1.50-1.99	.	.	16	664	434	58	3	.	.	.	1175
2.00-2.49	.	.	.	29	539	110	13	.	.	.	691
2.50-2.99	137	278	26	2	.	.	443
3.00-3.49	4	209	56	.	.	.	269
3.50-3.99	40	146	2	.	.	188
4.00-4.49	1	101	7	.	.	105
4.50-4.99	40	.	.	.	47
5.00-5.49	10	26	.	.	37
5.50-5.99	11	2	.	13
6.00-6.49	1	.	.	5
6.50-6.99	2	6	2	10
7.00+	5	1	6
TOTAL	269	1671	2282	2319	1552	716	395	54	18	3	
MEAN HS (M) = 1.3	LARGEST HS (M) =		8.1	MEAN TP (SEC) =		4.8	NO. OF CASES =		8694.		

STATION H42 44.48N 81.53W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL	
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER		
0.00-0.49	289	918	281	34	.	.	.	.	.	.	1522
0.50-0.99	.	703	1476	824	64	.	.	.	.	.	3067
1.00-1.49	.	.	382	713	345	16	.	.	.	.	1456
1.50-1.99	.	.	3	490	435	67	2	.	.	.	997	
2.00-2.49	.	.	.	11	465	132	14	.	.	.	622	
2.50-2.99	101	283	26	.	.	.	410	
3.00-3.49	1	216	71	2	.	.	292	
3.50-3.99	25	154	1	.	.	180	
4.00-4.49	1	114	2	.	.	117	
4.50-4.99	36	7	.	.	88	
5.00-5.49	22	.	.	25	
5.50-5.99	18	.	.	15	
6.00-6.49	12	3	.	8	
6.50-6.99	1	3	.	4	
7.00+	4	.	4	
TOTAL	289	1621	2142	2072	1411	742	424	64	12	0	8224	
MEAN HS(M) = 1.3	LARGEST HS(M)= 8.7										MEAN TP(SEC)= 4.8	NO. OF CASES= 8224.

MEAN HS(M) = 1.3 LARGEST HS(M)= 8.7 MEAN TP(SEC)= 4.8 NO. OF CASES= 8224.

STATION H42 44.48N 81.53W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	243	947	305	39							1534
0.50-0.99		842	1501	839	121	1	.	.	.	.	3304
1.00-1.49		4	366	885	447	45	1	.	.	.	1748
1.50-1.99			5	514	497	94	9	.	.	.	1119
2.00-2.49				18	505	166	27	.	.	.	716
2.50-2.99					125	324	67	.	.	.	516
3.00-3.49					3	254	79	4	.	.	340
3.50-3.99						23	207	3	1	.	234
4.00-4.49							117	6	1	.	124
4.50-4.99							49	19	1	.	68
5.00-5.49							3	25	1	.	29
5.50-5.99								9	7	1	16
6.00-6.49									2		12
6.50-6.99									2	7	9
7.00+										7	6
TOTAL	243	1793	2177	2285	1698	907	559	70	21	8	8

MEAN HS(M) = 1.3 LARGEST HS(M)= 8.5 MEAN TP(SEC)= 4.9 NO. OF CASES= 9156

STATION H42 44.48N 81.53W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	179	570	403	69	1						1242
0.50-0.99		654	1329	1425	301	3					3262
1.00-1.49			252	807	914	182	2				3257
1.50-1.99				473	640	305	34				1456
2.00-2.49			4	10	482	298	98				888
2.50-2.99					80	306	149	4			539
3.00-3.49						205	150	28			383
3.50-3.99						17	220	17	3		257
4.00-4.49							133	24	2		159
4.50-4.99							23	54	4		81
5.00-5.49							2	47	6		55
5.50-5.99								12	17		29
6.00-6.49									8		8
6.50-6.99									6		7
7.00+										1	1
TOTAL	179	1224	1988	2804	2418	1316	811	186	46	2	71

MEAN HS(M) = 1.4 LARGEST HS(M)= 7.0 MEAN TP(SEC)= 5.3 NO. OF CASES= 10281.

STATION H42 44.48N 81.53W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

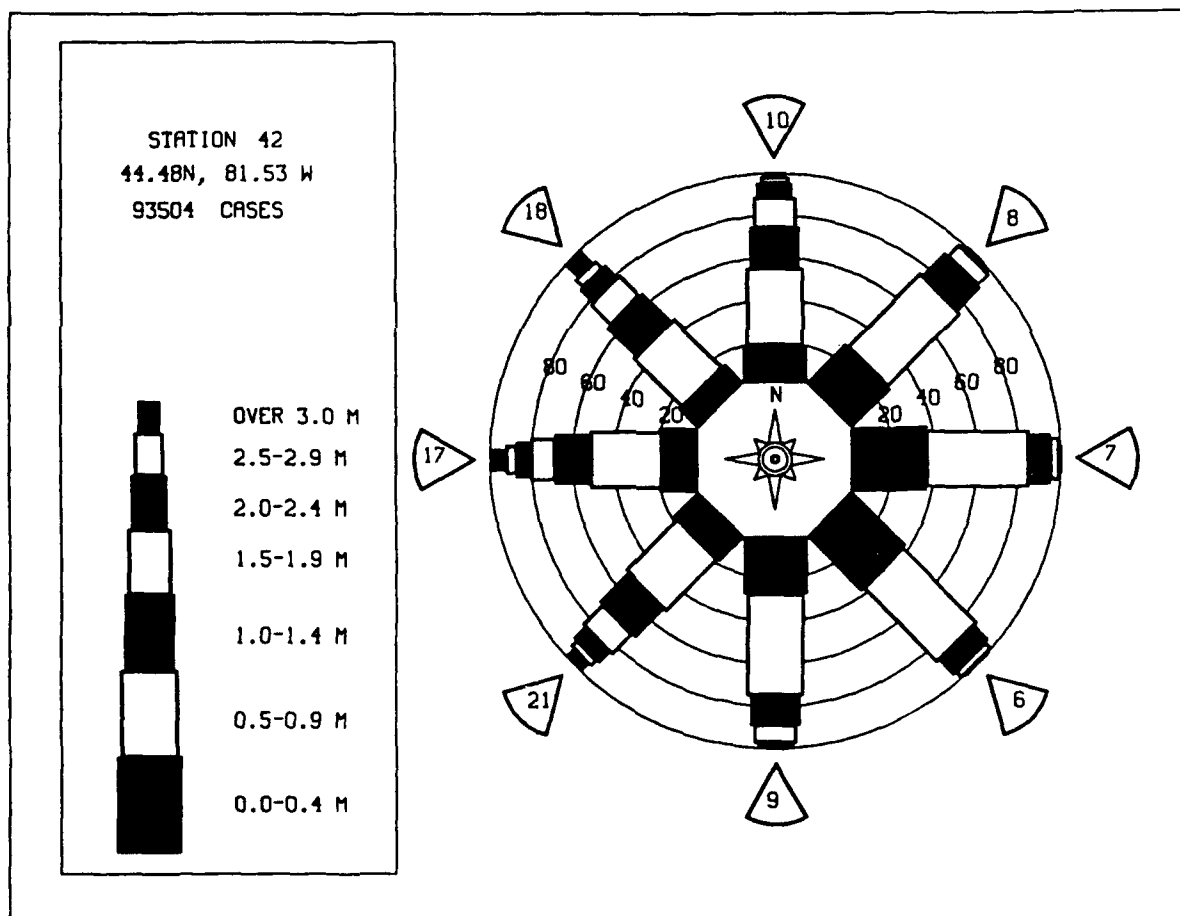
HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	174	265	121	23	4						587
0.50-0.99		278	612	348	89						1327
1.00-1.49		1	156	529	259	26	1				922
1.50-1.99				365	319	77	17				578
2.00-2.49				6	303	77	39				425
2.50-2.99					84	112	50				246
3.00-3.49					2	80	38				126
3.50-3.99						6	40	6			50
4.00-4.49							25	4	1		28
4.50-4.99							6		2		13
5.00-5.49								5	2		8
5.50-5.99								2	1		4
6.00-6.49									1		1
6.50-6.99											0
7.00+											0
TOTAL	174	544	889	1271	1060	378	216	27	7	0	

MEAN HS(M) = 1.3 LARGEST HS(M)= 6.6 MEAN TP(SEC)= 5.0 NO. OF CASES= 4285.

STATION H42 44.48N 81.53W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-10.9 LONGER	
0.00-0.49	602	1024	346	76	5	.	.	.	.	.	2053
0.50-0.99	.	1715	1357	676	133	.	.	.	.	.	3885
1.00-1.49	.	.	732	572	316	56	2	.	.	.	1678
1.50-1.99	.	.	111	559	321	82	16	.	.	.	1089
2.00-2.49	.	.	.	63	353	98	27	.	.	.	541
2.50-2.99	.	.	.	3	96	172	35	1	.	.	307
3.00-3.49	5	123	50	4	.	.	182
3.50-3.99	18	93	2	.	.	113
4.00-4.49	57	4	.	.	61
4.50-4.99	18	12	.	.	30
5.00-5.49	3	14	1	.	18
5.50-5.99	5	3	.	8
6.00-6.49	1	2	.	3
6.50-6.99	2	.	2
7.00+	1	.	1
TOTAL	602	2739	2546	1949	1229	553	301	43	9	1	93504

MEAN HS(M)= 1.1 LARGEST HS(M)= 8.7 MEAN TP(SEC)= 4.4 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H42 (44.48N 81.53W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
YEAR													
1956	1.0	1.2	1.2	1.2	1.4	0.9	0.8	0.9	1.0	1.2	1.6	1.6	1.2
1957	1.7	1.3	1.1	1.3	1.2	1.1	0.9	0.9	1.1	1.2	2.2	2.0	1.3
1958	1.6	1.7	0.8	1.2	1.3	1.4	0.9	1.2	1.3	1.4	2.0	1.6	1.4
1959	1.8	1.5	1.5	1.4	1.2	1.1	1.0	1.0	1.2	1.3	1.6	1.4	1.3
1960	1.4	1.6	1.0	1.2	0.9	0.9	0.9	0.8	1.2	1.2	1.8	2.0	1.2
1961	1.4	1.2	1.5	1.1	1.1	1.2	0.8	0.9	1.0	1.3	1.4	1.6	1.1
1962	2.0	1.3	1.0	1.5	1.1	0.9	1.0	0.8	1.3	1.1	1.1	1.5	1.1
1963	1.5	1.4	1.3	1.5	1.1	0.7	0.9	0.9	0.9	1.0	1.5	1.3	1.2
1964	1.7	1.3	1.7	1.5	1.6	1.1	1.0	0.9	1.2	1.2	1.5	1.4	1.1
1965	1.8	1.1	1.1	1.0	1.1	1.0	0.9	0.8	1.1	1.1	1.1	1.1	1.1
1966	1.7	1.1	1.1	1.1	1.3	0.9	1.0	0.9	1.0	1.1	1.1	1.1	1.1
1967	1.5	1.4	0.8	1.1	1.1	0.7	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1968	1.1	1.7	1.1	1.1	1.1	0.9	1.1	0.9	1.1	1.1	1.1	1.1	1.1
1969	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1970	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1971	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1972	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1973	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1974	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1975	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1976	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1977	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1978	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1979	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1980	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1981	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1982	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1983	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1984	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1985	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1986	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1987	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.8	0.9	1.1	1.1	1.1	1.1
MEAN	1.4	1.2	1.1	1.2	1.0	0.8	0.8	0.8	0.9	1.1	1.3	1.3	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H42 (44.48N 81.53W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
YEAR													
1956	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1957	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1958	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1959	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1960	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1961	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1962	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1963	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1964	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1965	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1966	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1967	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1968	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1969	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1970	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1971	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1972	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1973	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1974	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1975	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1976	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1977	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1978	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1979	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1980	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1981	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1982	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1983	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1984	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1985	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1986	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	
1987	3.2	7.0	8.1	4.4	6.4	3.8	2.4	3.1	4.3	4.5	5.9	6.4	

32 YR. STATISTICS FOR WIS STATION H42

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	1.1
MEAN PEAK WAVE PERIOD	(SECONDS)	4.4
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	225.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.9
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.5
LARGEST WAVE HS	(METERS)	8.7
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	10.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	279.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		59012212

STATION H43 44.33N 81.72W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	270	564	206	38	120	.	.	.	.	.	1078
0.50-0.99	.	398	867	568	296	45	1	.	.	.	1953
1.00-1.49	.	.	147	218	403	57	8	.	.	.	1007
1.50-1.99	.	.	.	272	301	42	12	.	.	.	740
2.00-2.49	.	.	.	3	49	141	12	.	.	.	358
2.50-2.99	82	6	1	.	.	202
3.00-3.49	10	18	.	.	.	89
3.50-3.99	7	.	.	.	28
4.00-4.49	1	.	.	8
4.50-4.99	1	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	270	962	1220	1399	1169	377	64	2	1	0	

MEAN HS(M) = 1.1 LARGEST HS(M)= 4.6 MEAN TP(SEC)= 4.7 NO. OF CASES= 5124.

STATION H43 44.33N 81.72W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	289	717	199	37	1	.	.	.	.	.	1243
0.50-0.99	.	504	1085	399	79	2	.	.	.	.	2079
1.00-1.49	.	.	300	501	134	21	.	.	.	.	956
1.50-1.99	.	.	.	357	162	7	.	.	.	.	526
2.00-2.49	.	.	.	4	248	8	1	.	.	.	261
2.50-2.99	58	66	.	.	.	.	124
3.00-3.49	55	.	.	.	.	55
3.50-3.99	2	10	.	.	.	12
4.00-4.49	9	.	.	.	9
4.50-4.99	2	.	.	.	2
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	289	1221	1594	1298	682	161	22	0	0	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.7 MEAN TP(SEC)= 4.3 NO. OF CASES= 4937.

STATION H43 44.33N 81.72W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	285	778	243	39	1	.	.	.	.	.	1346
0.50-0.99	.	447	916	264	26	4	.	.	.	.	1687
1.00-1.49	.	.	365	357	25	5	.	1	.	.	753
1.50-1.99	.	.	1	413	32	2	.	.	.	.	448
2.00-2.49	.	.	.	8	185	1	.	.	.	.	193
2.50-2.99	59	16	.	.	.	.	60
3.00-3.49	2	3	.	.	.	.	18
3.50-3.99	3
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	285	1225	1525	1081	360	31	0	1	0	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 3.9 MEAN TP(SEC)= 4.0 NO. OF CASES= 4224.

STATION H43 44.33N 81.72W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	324	664	191	32	4	1	.	.	.	.	1216
0.50-0.99	.	516	459	210	25	2	.	.	.	.	1212
1.00-1.49	.	.	226	115	17	1	.	.	.	.	359
1.50-1.99	.	.	32	113	11	3	.	.	.	.	159
2.00-2.49	.	.	.	13	23	1	.	.	.	.	37
2.50-2.99	.	.	.	1	12	.	.	.	.	.	13
3.00-3.49	9	.	.	.	.	9
3.50-3.99	3	.	.	.	.	3
4.00-4.49	1	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	324	1180	908	484	92	20	1	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 4.3 MEAN TP(SEC)= 3.6 NO. OF CASES= 2823.

STATION H43 44.33N 81.72W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	438	894	203	41	1	1	.	.	.	.	1578
0.50-0.99	.	1042	393	185	34	2	1	.	.	.	1667
1.00-1.49	.	.	280	54	14	.	.	.	.	.	348
1.50-1.99	.	.	73	36	4	.	.	.	.	.	113
2.00-2.49	.	.	.	18	.	2	.	.	.	.	20
2.50-2.99	.	.	.	3	.	.	.	.	.	.	5
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	438	1936	949	347	55	5	1	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.8 MEAN TP(SEC)= 3.4 NO. OF CASES= 3496.

STATION H43 44.33N 81.72W AZIMUTH(DEGREES) = 112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	478	685	159	24	1	.	.	.	.	.	1347
0.50-0.99	.	1087	366	100	21	2	1	.	.	.	1577
1.00-1.49	.	.	247	7	7	.	.	.	.	.	261
1.50-1.99	.	.	33	78	.	1	.	.	.	.	112
2.00-2.49	.	.	.	8	.	.	.	.	.	.	8
2.50-2.99	4	.	.	.	.	.	4
3.00-3.49	1	.	.	.	.	.	1
3.50-3.99	1	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	478	1772	805	217	34	4	1	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.8 MEAN TP(SEC)= 3.3 NO. OF CASES= 3102.

STATION H43 44.33N 81.72W AZIMUTH(DEGREES) = 135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	553	578	191	52	1	.	.	.	.	.	1375
0.50-0.99	.	860	336	77	13	3	.	.	.	.	1289
1.00-1.49	.	.	139	1	2	.	.	.	.	.	142
1.50-1.99	.	.	3	27	1	.	1	.	.	.	32
2.00-2.49	.	.	.	4	1	.	.	.	.	.	5
2.50-2.99	1
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	553	1438	669	161	19	3	1	0	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.7 MEAN TP(SEC)= 3.2 NO. OF CASES= 2666.

STATION H43 44.33N 81.72W AZIMUTH(DEGREES) = 157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	454	545	185	41	18	1	.	.	.	.	1205
0.50-0.99	.	1073	466	100	18	1	.	.	.	.	1658
1.00-1.49	.	.	262	16	3	2	.	.	.	.	284
1.50-1.99	.	.	16	100	.	.	.	.	.	.	116
2.00-2.49	.	.	.	17	6	.	.	.	.	.	23
2.50-2.99	7	.	.	.	.	.	7
3.00-3.49	2	1	.	.	.	.	3
3.50-3.99	1	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	454	1618	909	274	36	4	2	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.7 MEAN TP(SEC)= 3.3 NO. OF CASES= 3089.

STATION H43 44.33N 81.72W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49											1509
0.50-0.99	484	733	219	70	3						2418
1.00-1.49		1406	805	164	40	3	.	.	.	.	996
1.50-1.99			898	79	8	11	.	.	.	.	478
2.00-2.49			21	437	1	13	6	.	.	.	140
2.50-2.99				82	44	4	10	.	.	.	41
3.00-3.49					33		8	.	.	.	10
3.50-3.99					9	.		.	.	.	4
4.00-4.49						3		1	.	.	1
4.50-4.99						1	.	.	.	.	2
5.00-5.49							1	.	.	.	2
5.50-5.99							2	.	.	.	0
6.00-6.49								.	.	.	0
6.50-6.99								.	.	.	0
7.00+								.	.	.	0
TOTAL	484	2139	1943	832	138	37	27	1	0	0	
MEAN HS (M) = 0.8	LARGEST HS (M) =		5.3	MEAN TP (SEC) =		3.7	NO. OF CASES =		5249.		

MEAN HS(M) = 0.8 LARGEST HS(M)= 5.3 MEAN TP(SEC)= 3.7 NO. OF CASES= 5249.

STATION H43 44.33N 81.72W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	391	1134	586	228	8						2347
0.50-0.99		1615	1521	653	202	10	1	.	.	.	4002
1.00-1.49	.		1397	475	241	35	1	.	.	.	2149
1.50-1.99	.	.	77	821	470	151	7	.	.	.	1526
2.00-2.49	.	.	.	183	316	248	32	.	.	.	779
2.50-2.99	.	.	.		124	189	88	.	.	.	401
3.00-3.49	.	.	.		22	111	40	1	.	.	174
3.50-3.99	.	.	.		1	19	44	3	.	.	67
4.00-4.49	.	.	.			2	18	3	1	.	24
4.50-4.99	2	14		.	.	16
5.00-5.49			2	.	.	6
5.50-5.99			1	.	.	3
6.00-6.49	1
6.50-6.99			1	.	.	2
7.00+	0
TOTAL	391	2749	3581	2360	1384	767	252	12	1	0	

MEAN HS(M) = 1.1 LARGEST HS(M)= 6.6 MEAN TP(SEC)= 4.4 NO. OF CASES= 10768.

STATION H43 44.33N 81.72W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	379	1285	552	114	3	1	.	.	.	.	2334
0.50-0.99	.	624	1856	880	110	3	.	.	.	.	3683
1.00-1.49	.	.	634	958	270	9	.	.	.	.	1871
1.50-1.99	.	.	6	764	617	31	1	.	.	.	1419
2.00-2.49	.	.	.	24	630	81	2	.	.	.	737
2.50-2.99	141	282	9	.	.	.	432
3.00-3.49	6	197	35	.	.	.	238
3.50-3.99	24	94	.	.	.	118
4.00-4.49	5	47	1	.	.	53
4.50-4.99	26	4	.	.	30
5.00-5.49	11	7	.	.	18
5.50-5.99	1	10	.	.	11
6.00-6.49	7	2	.	9
6.50-6.99	3	.	3
7.00+	0
TOTAL	379	2109	3058	2740	1777	633	226	29	5	0	

MEAN HS(M) = 1.1 LARGEST HS(M)= 6.9 MEAN TP(SEC)= 4.6 NO. OF CASES= 10260

STATION H43 44.33N 81.72W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	308	1086	413	59	2						1856
0.50-0.99		644	1396	788	104	3	.	.	.	.	2935
1.00-1.49		1	291	726	294	17	1	.	.	.	1330
1.50-1.99			3	419	488	37	2	.	.	.	950
2.00-2.49				6	393	75	8	.	.	.	482
2.50-2.99					84	199	19	2	.	.	304
3.00-3.49						145	34	.	.	.	179
3.50-3.99						16	94	.	.	.	110
4.00-4.49							53	1	.	.	54
4.50-4.99							27	4	.	.	31
5.00-5.49							5	4	1	.	10
5.50-5.99							1	4	.	.	6
6.00-6.49								5	2	.	7
6.50-6.99								.	.	.	0
7.00+								.	.	.	0
TOTAL	308	1731	2103	1998	1366	492	244	20	4	0	

MEAN HS(M) = 1.1 LARGEST HS(M)= 6.6 MEAN TP(SEC)= 4.6 NO. OF CASES= 7745

STATION H43 44.33N 81.72W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	301	1063	403	54	1	1	.	.	.	.	1822
0.50-0.99	.	555	1434	876	97	28	1	.	.	.	2963
1.00-1.49	.	1	263	786	306	1	4	.	.	.	1385
1.50-1.99	.	.	5	370	483	64	1	.	.	.	926
2.00-2.49	.	.	.	8	377	156	6	.	.	.	547
2.50-2.99	68	238	22	.	.	.	328
3.00-3.49	1	161	45	.	.	.	209
3.50-3.99	12	102	1	.	.	115
4.00-4.49	59	1	.	.	60
4.50-4.99	29	6	.	.	35
5.00-5.49	1	8	.	.	9
5.50-5.99	6	.	.	6
6.00-6.49	2	1	.	3
6.50-6.99	1	.	1
7.00+	1	.	1
TOTAL	301	1619	2105	2094	1333	660	269	26	3	0	7879.
MEAN HS (M) = 1.1	LARGEST HS (M) = 7.5		MEAN TP (SEC) = 4.7		NO. OF CASES = 7879.						

STATION H43 44.33N 81.72W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	228	1095	316	49	1						1689
0.50-0.99	.	678	1443	857	121	3	.	.	.	.	3102
1.00-1.49	.	.	249	759	408	50	.	.	.	.	1466
1.50-1.99	.	.	6	351	487	71	18	.	.	.	933
2.00-2.49	.	.	.	8	380	159	22	.	.	.	569
2.50-2.99	77	259	50	2	.	.	388
3.00-3.49	1	168	64	1	.	.	234
3.50-3.99	13	125	4	.	.	143
4.00-4.49	48	3	2	.	51
4.50-4.99	7	.	.	.	10
5.00-5.49	2	10	.	.	12
5.50-5.99	4	3	.	7
6.00-6.49	1	1	.	2
6.50-6.99	1	2	3
7.00+	1	1
TOTAL	228	1773	2014	2024	1475	723	337	26	7	3	
MEAN HS(M) = 1.2	LARGEST HS(M)=		9.2	MEAN TP(SEC)=		4.8	NO. OF CASES=		8067.		

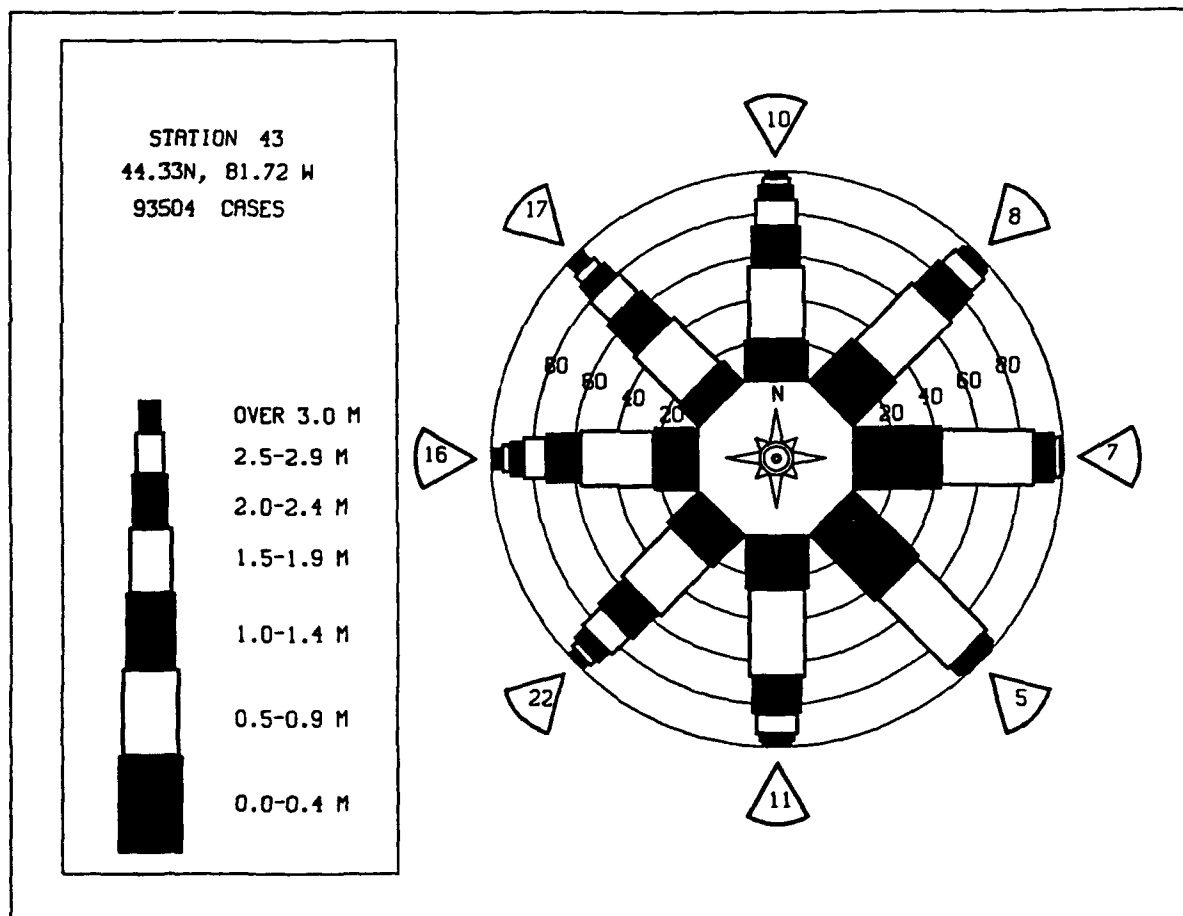
STATION H43 44.33N 81.72W AZIMUTH(DEGREES) -315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL	
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER		
0.00-0.49	168	740	327	53	.	.	.	.	.	.	1288
0.50-0.99	.	527	1274	1109	259	4	.	.	.	.	3173
1.00-1.49	.	.	203	842	787	154	4	.	.	.	1990	
1.50-1.99	.	.	5	408	682	309	48	.	.	.	1452	
2.00-2.49	.	.	.	9	424	313	148	2	.	.	896	
2.50-2.99	53	331	179	7	.	.	570	
3.00-3.49	133	125	33	2	.	293	
3.50-3.99	13	187	26	9	.	232	
4.00-4.49	86	26	4	i	121	
4.50-4.99	18	38	4	.	62	
5.00-5.49	8	.	.	20	
5.50-5.99	8	11	i	14	
6.00-6.49	12	2	3	
6.50-6.99	2	1	4	
7.00+	2	2	3	
TOTAL	168	1267	1809	2421	2205	1257	795	184	56	7	9529	
MEAN HS(M) = 1.4	LARGEST HS(M)= 8.9										MEAN TP(SEC)= 5.3	NO. OF CASES= 9529.

STATION H43 44.33N 81.72W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	157	357	134	29							677
0.50-0.99		237	609	486	109	1	.	.	.	.	1442
1.00-1.49	.	.	88	491	377	69	.	.	.	.	1025
1.50-1.99	.	.	2	235	396	136	21	.	.	.	790
2.00-2.49	.	.	.	2	241	117	41	.	.	.	401
2.50-2.99	.	.	.	.	31	158	53	.	.	.	245
3.00-3.49	.	.	.	.	.	73	48	10	.	.	131
3.50-3.99	.	.	.	.	.	5	57	6	.	.	69
4.00-4.49	.	.	.	.	.	1	27	6	1	.	36
4.50-4.99	.	.	.	.	.	.	2	10	1	.	13
5.00-5.49	.	.	.	.	.	.	.	7	.	.	7
5.50-5.99	.	.	.	.	.	.	.	3	3	.	6
6.00-6.49	.	.	.	.	.	.	.	.	.	.	0
6.50-6.99	.	.	.	.	.	.	.	.	1	.	1
7.00+	.	.	.	.	.	.	.	.	.	.	0
TOTAL	157	594	833	1243	1154	560	249	45	8	0	
MEAN HS(M) = 1.3	LARGEST HS(M)=		6.5	MEAN TP(SEC)=		5.2	NO. OF CASES=		4546.		

STATION H43 44.33N 81.72W FOR ALL DIRECTIONS										
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-11.9 LONGER
0.00-0.49	551	1292	451	96	2	4	1	1	1	2392
0.50-0.99		1242	1525	773	141	45	11	1	1	3685
1.00-1.49			599	669	319	88	28	1	1	1633
1.50-1.99			28	520	424	121	44	1	1	1071
2.00-2.49				40	357	121	44	1	1	546
2.50-2.99					80	186	73	4	1	311
3.00-3.49					4	115	39	4	1	162
3.50-3.99						13	73	6	1	90
4.00-4.49							35	4	1	40
4.50-4.99							13	6	1	19
5.00-5.49							2	8	1	10
5.50-5.99								3	1	4
6.00-6.49								1	1	2
6.50-6.99									1	1
7.00+										0
TOTAL	551	2534	2603	2098	1327	572	246	31	4	0
MEAN HS(M)= 1.0 LARGEST HS(M)= 9.2 MEAN TP(SEC)= 4.4 TOTAL CASES= 93504.										



MEAN HS(METERS) BY MONTH AND YEAR

WIS STATION H43 (44.33N 81.72W)

MONTH

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
YEAR													
1956	1.1	1.1	1.2	1.2	1.4	0.9	0.7	0.8	1.0	1.2	1.6	1.5	1.1
1957	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1958	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1959	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1960	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1961	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1962	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1963	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1964	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1965	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1966	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1967	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1968	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1969	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1970	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1971	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1972	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1973	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1974	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1975	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1976	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1977	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1978	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1979	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1980	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1981	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1982	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1983	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1984	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1985	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1986	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1987	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
MEAN	1.3	1.2	1.1	1.1	0.9	0.8	0.7	0.7	0.9	1.1	1.3	1.3	

LARGEST HS(METERS) BY MONTH AND YEAR

WIS STATION H43 (44.33N 81.72W)

MONTH

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
YEAR												
1956	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1957	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1958	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1959	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1960	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1961	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1962	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1963	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1964	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1965	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1966	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1967	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1968	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1969	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1970	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1971	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1972	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1973	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1974	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1975	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1976	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1977	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1978	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1979	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1980	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1981	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1982	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1983	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1984	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1985	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1986	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2
1987	3.7	6.2	6.2	3.3	5.7	3.7	2.4	2.4	4.0	3.9	5.7	5.2

32 YR. STATISTICS FOR WIS STATION H43

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	1.0
MEAN PEAK WAVE PERIOD (SECONDS)	4.4
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	202.5
STANDARD DEVIATION OF WAVE HS (METERS)	0.8
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.4
LARGEST WAVE HS (METERS)	9.2
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	12.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	301.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	63040421

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	282	655	268	67	1	.	.	.	.	.	1273
0.50-0.99	.	445	842	622	135	4	.	.	.	.	2048
1.00-1.49	.	.	147	502	411	66	.	.	.	.	1125
1.50-1.99	.	.	3	236	386	94	16	.	.	.	1125
2.00-2.49	.	.	.	5	226	118	19	.	.	.	368
2.50-2.99	28	142	16	.	.	.	186
3.00-3.49	1	64	37	2	.	.	85
3.50-3.99	9	13	.	.	.	46
4.00-4.49	1	13	.	.	.	14
4.50-4.99	2	1	.	.	3
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	282	1100	1260	1432	1188	498	121	3	0	0	5515.
MEAN HS(M) = 1.0	LARGEST HS(M)=		4.8	MEAN TP(SEC)=		4.7	NO. OF CASES=		5515.		

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49				59		1					1274
0.50-0.99	306	612	296	534	119	6					1947
1.00-1.49		530	758	488	227	32					903
1.50-1.99			156								404
2.00-2.49			9	162	208	25					180
2.50-2.99				3	154	21					88
3.00-3.49				2	19	56	2				16
3.50-3.99					1	31					4
4.00-4.49							19				0
4.50-4.99							4				0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00-7.99											0
TOTAL	306	1142	1219	1248	728	182	30	0	0	0	4551
MEAN HS (M) = 0.9	LARGEST HS (M) =		4.4	MEAN TP (SEC) =		4.3	NO. OF CASES =		4551		

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	287	625	335	75	5	1	.	.	.	.	1328
0.50-0.99	.	670	589	482	93	8	.	.	.	.	1842
1.00-1.49	.	.	165	406	146	12	1	.	.	.	730
1.50-1.99	.	.	31	81	164	8	1	.	.	.	285
2.00-2.49	.	.	.	16	64	5	.	.	.	.	85
2.50-2.99	.	.	.	3	6	22	1	.	.	.	32
3.00-3.49	1	3	1	.	.	.	5
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	287	1295	1120	1063	479	59	4	0	0	0	4038.
MEAN HS(M) = 0.8	LARGEST HS(M)=			3.3	MEAN TP(SEC)=			4.1	NO. OF CASES=		4038.

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	330	520	310	66	2	1	.	.	.	.	1229
0.50-0.99	.	670	367	333	56	1	.	.	.	.	1428
1.00-1.49	.	.	142	187	58	6	.	.	.	.	393
1.50-1.99	.	.	37	50	45	5	.	.	.	.	137
2.00-2.49	.	.	.	14	.	10	.	.	.	.	29
2.50-2.99	.	.	.	2	2	3	1	.	.	.	8
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	330	1190	856	652	168	26	2	0	0	0	3025.
MEAN HS(M) = 0.7	LARGEST HS(M)=		2.9	MEAN TP(SEC)=		3.8	NO. OF CASES=		3025.		

STATION H44 44.18N 81.72W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	522	714	301	80	4	1	.	.	.	.	1622
0.50-0.99	.	1030	311	287	65	7	.	.	.	.	1700
1.00-1.49	.	.	226	27	31	1	.	.	.	.	285
1.50-1.99	.	.	47	24	3	2	1	.	.	.	77
2.00-2.49	.	.	.	14	1	.	.	.	.	.	15
2.50-2.99	.	.	.	3	2	.	.	.	.	.	5
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	522	1744	885	435	105	12	1	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.7 MEAN TP(SEC)= 3.4 NO. OF CASES= 3472.

STATION H44 44.18N 81.72W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	654	682	233	49	3	2	1	.	.	.	1624
0.50-0.99	.	1207	397	163	25	1	1	.	.	.	1793
1.00-1.49	.	.	272	5	8	8	1	.	.	.	295
1.50-1.99	.	.	40	55	2	.	.	.	.	.	97
2.00-2.49	.	.	.	8	.	.	.	.	.	.	8
2.50-2.99	1	.	.	.	.	.	1
3.00-3.49	1	.	.	.	.	.	1
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	654	1889	942	280	39	12	3	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.0 MEAN TP(SEC)= 3.3 NO. OF CASES= 3579.

STATION H44 44.18N 81.72W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	724	617	263	89	1	.	.	.	.	.	1694
0.50-0.99	.	1116	434	126	38	3	3	.	.	.	1718
1.00-1.49	.	.	139	3	5	3	.	.	.	.	150
1.50-1.99	.	.	2	33	.	.	1	.	.	.	36
2.00-2.49	.	.	.	5	1	.	.	.	.	.	6
2.50-2.99	2	.	.	.	.	.	2
3.00-3.49	1	.	.	.	.	.	1
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	724	1733	838	256	48	4	4	0	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 3.0 MEAN TP(SEC)= 3.2 NO. OF CASES= 3377.

STATION H44 44.18N 81.72W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	571	549	235	70	.	1	.	.	.	.	1426
0.50-0.99	.	1054	360	105	39	2	1	.	.	.	1561
1.00-1.49	.	.	207	1	5	5	.	.	.	.	218
1.50-1.99	.	.	23	71	.	.	.	.	.	.	94
2.00-2.49	.	.	.	8	1	.	.	.	.	.	10
2.50-2.99	5	.	.	.	.	.	5
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	571	1603	825	256	50	8	1	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.8 MEAN TP(SEC)= 3.3 NO. OF CASES= 3106.

STATION H44 44.18N 81.72W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49											1810
0.50-0.99	684	807	217	99	3						1768
1.00-1.49		1280	262	160	62	4	.	.	.	.	300
1.50-1.99	.	.	272	4	11	13		.	.	.	165
2.00-2.49	.	.	108	43	.	6	8	.	.	.	28
2.50-2.99	.	.	.	26	.		2	.	.	.	4
3.00-3.49	.	.	.	3	1	.	.	.	.	.	3
3.50-3.99	.	.	.	.	3	.	.	.	.	.	2
4.00-4.49	.	.	.	.	2	.	.	.	.	.	1
4.50-4.99	.	.	.	.	1	.	.	.	.	.	0
5.00-5.49	.	.	.	.	.	.	.	.	.	.	0
5.50-5.99	.	.	.	.	.	.	.	.	.	.	0
6.00-6.49	.	.	.	.	.	.	.	.	.	.	0
6.50-6.99	.	.	.	.	.	.	.	.	.	.	0
7.00+	.	.	.	.	.	.	.	.	.	.	0
TOTAL	684	2087	859	335	83	23	10	0	0	0	
MEAN HS(M) = 0.6	LARGEST HS(M)=		4.1	MEAN TP(SEC)=		3.3	NO. OF CASES=				3824.

STATION H44 44.18N 81.72W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	612	1284	619	325	22						2862
0.50-0.99		2571	546	594	371	26	1	.	.	.	3909
1.00-1.49	.	.	509	234	380	155	8	.	.	.	1286
1.50-1.99	.	.	185	186	175	201	50	.	.	.	797
2.00-2.49	.	.	.	58	113	45	35	.	.	.	251
2.50-2.99	.	.	.	5	32	75	8	3	.	.	123
3.00-3.49	.	.	.	.	3	28	17	2	.	.	50
3.50-3.99	.	.	.	.	.	6	24	.	.	.	30
4.00-4.49	.	.	.	.	.	.	8	.	.	.	8
4.50-4.99	.	.	.	.	.	.	8	1	.	.	9
5.00-5.49	.	.	.	.	.	.	1	1	.	.	2
5.50-5.99	.	.	.	.	.	.	.	.	.	.	0
6.00-6.49	.	.	.	.	.	.	.	.	.	.	0
6.50-6.99	.	.	.	.	.	.	.	.	.	.	0
7.00-7.49	.	.	.	.	.	.	.	.	.	.	0
TOTAL	612	3655	1859	1402	1096	536	160	7	0	0	
MEAN HS (M) = 0.8	LARGEST HS (M) =		5.1	MEAN TP (SEC) =		4.1	NO. OF CASES =		8735.		

STATION H44 44.18N 81.72W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	535	1359	742	158	3						2797
0.50-0.99		1276	1698	1033	213	5					4225
1.00-1.49			572	765	473	74	1				1885
1.50-1.99			42	522	448	93	7				1112
2.00-2.49				36	378	101	27				542
2.50-2.99				4	58	185	17				264
3.00-3.49					8	105	40	1			154
3.50-3.99						16	58				74
4.00-4.49						6	33				41
4.50-4.99							7				10
5.00-5.49							3				6
5.50-5.99								4			7
6.00-6.49									2		2
6.50-6.99									2		2
7.00+											0
TOTAL	535	2635	3054	2518	1581	585	193	15	11	0	
MEAN HS(M) = 1.0	LARGEST HS(M)=		6.6	MEAN TP(SEC)=		4.4	NO. OF CASES=		10422.		

STATION 844 44.18N 81.72W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	365	1152	608	102	4						2231
0.50-0.99		660	1381	696	106	6					2849
1.00-1.49			271	626	210	18					1125
1.50-1.99			2	404	445	17		2			870
2.00-2.49				12	314	69		4			399
2.50-2.99					74	174		8			256
3.00-3.49						108		22			130
3.50-3.99						13		73			86
4.00-4.49								38			38
4.50-4.99								23			31
5.00-5.49								1			7
5.50-5.99								6	1		8
6.00-6.49								1	1		5
6.50-6.99								2	3		5
7.00+									1		1
TOTAL	365	1812	2262	1840	1153	405	172	21	6	0	0
MEAN HS (M) = 1.0	LARGEST HS (M) =		6.6	MEAN TP (SEC) =		4.5	NO. OF CASES =		75-3.		

STATION H44 44.18N 81.72W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	390	1196	545	83	1	.	.	.	.	.	2215
0.50-0.99	.	577	1645	1043	119	7	1	.	.	.	3391
1.00-1.49	.	1	222	822	425	29	1	.	.	.	1500
1.50-1.99	.	.	4	366	619	86	6	1	.	.	1082
2.00-2.49	.	.	.	7	340	206	13	1	.	.	567
2.50-2.99	59	244	28	.	.	.	331
3.00-3.49	133	71	2	.	.	201
3.50-3.99	13	117	1	.	.	131
4.00-4.49	69	2	.	.	71
4.50-4.99	63	14	.	.	37
5.00-5.49	23	2	.	.	16
5.50-5.99	2	6	1	.	7
6.00-6.49	1	2	2	.	4
6.50-6.99	1	.	.	1
7.00+	1	.	1
TOTAL	390	1774	2416	2321	1563	718	331	43	4	0	
MEAN BS(M) = 1.1	LARGEST BS(M) = 7.8		MEAN TP(SEC) = 4.7		NO. OF CASES = 8960.						

MEAN HS(M) = 1.1 LARGEST HS(M)= 7.8 MEAN TP(SEC)= 4.7 NO. OF CASES= 8960.

STATION H44 44.18N 81.72W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	286	1164	484	59	1						1994
0.50-0.99	.	622	1504	948	134	8	1	.	.	.	3217
1.00-1.49	.	.	237	806	449	54	6	.	.	.	1552
1.50-1.99	.	.	8	339	573	84	16	1	.	.	1021
2.00-2.49	.	.	.	4	341	228	26	.	.	.	599
2.50-2.99	51	243	65	4	.	.	363
3.00-3.49	131	85	1	.	.	218
3.50-3.99	11	110	3	1	.	126
4.00-4.49	16	3	2	.	55
4.50-4.99	2	7	.	.	21
5.00-5.49	8	1	.	9
5.50-5.99	0
6.00-6.49	0
6.50-6.99	1	1	2
7.00+	0
TOTAL	286	1786	2233	2156	1549	759	380	30	5	1	

MEAN HS(M) = 1.1 LARGEST HS(M)= 6.8 MEAN TP(SEC)= 4.8 NO. OF CASES= 8605.

STATION H44 44.18N 81.72W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	214	828	418	84	7	.	.	.	.	.	1551
0.50-0.99	.	548	1360	997	224	11	.	.	.	.	3140
1.00-1.49	.	.	170	842	680	137	7	.	.	.	1836
1.50-1.99	.	.	3	373	706	291	47	.	.	.	1420
2.00-2.49	.	.	.	5	388	339	140	2	.	.	874
2.50-2.99	45	300	186	12	.	.	543
3.00-3.49	114	139	29	.	.	285
3.50-3.99	7	182	22	3	.	216
4.00-4.49	63	27	3	.	84
4.50-4.99	17	37	3	.	63
5.00-5.49	1	36	8	1	46
5.50-5.99	7	9	9	1	18
6.00-6.49	1	1	6	4	11
6.50-6.99	3	3	6
7.00+	1	3	4
TOTAL	214	1376	1951	2301	2050	1199	783	171	50	12	

MEAN HS(M) = 1.3 LARGEST HS(M)= 9.8 MEAN TP(SEC)= 5.2 NO. OF CASES= 9473

STATION H44 44.18N 81.72W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

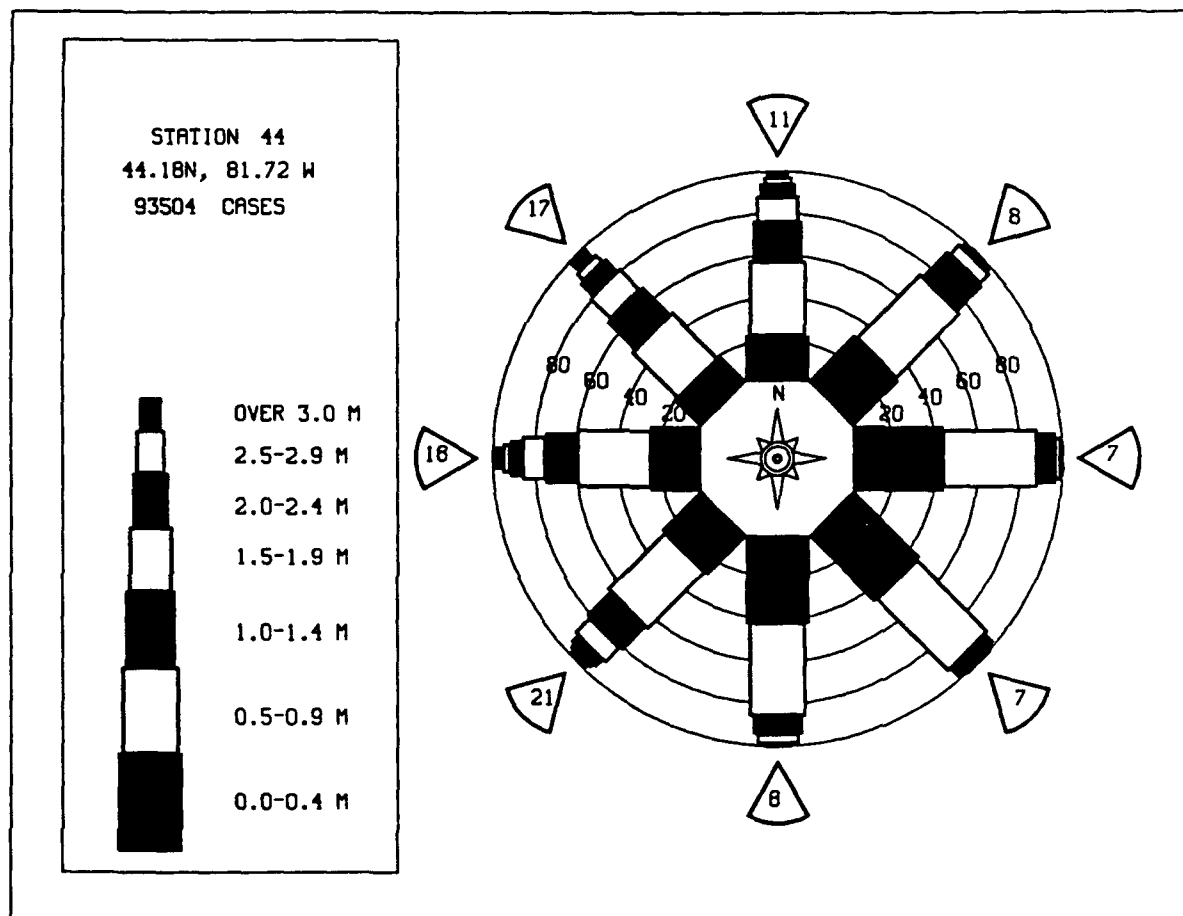
HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	222	488	216	54							980
0.50-0.99		334	699	512	131						1680
1.00-1.49			127	518	397	4					1112
1.50-1.99				238	454	69	1				891
2.00-2.49				6	202	158	27				431
2.50-2.99					28	147	65				250
3.00-3.49						74	74				153
3.50-3.99						4	58	17			72
4.00-4.49							62	9	1		38
4.50-4.99							28	7	2		15
5.00-5.49							5				8
5.50-5.99								8			5
6.00-6.49								1	3	1	4
6.50-6.99									4		0
7.00+											0
TOTAL	222	822	1042	1328	1212	628	320	49	14	2	

MEAN HS(M) = 1.2 LARGEST HS(M)= 6.3 MEAN TP(SEC)= 5.1 NO. OF CASES= 5290

STATION H44 44.18N 81.72W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	699	1326	609	152	5	10	2	1	1	1	2791
0.50-0.99	.	1439	1316	864	193	68	2	1	1	1	3822
1.00-1.49	.	.	384	624	392	109	18	1	1	1	1470
1.50-1.99	.	.	54	319	423	130	33	1	1	1	923
2.00-2.49	.	.	.	23	253	160	40	2	1	1	439
2.50-2.99	.	.	.	2	42	79	46	3	1	1	246
3.00-3.49	2	8	31	3	1	1	132
3.50-3.99	10	1	1	1	79
4.00-4.49	7	1	1	1	35
4.50-4.99	3	1	1	1	18
5.00-5.49	1	1	1	1	9
5.50-5.99	1	1	1	4
6.00-6.49	1	1	2
6.50-6.99	1	0
7.00+	0
TOTAL	699	2765	2363	1984	1310	564	249	30	6	0	

MEAN HS(M)= 0.9 LARGEST HS(M)= 9.8 MEAN TP(SEC)= 4.3 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H44 (44.18N 81.72W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.1	1.1	1.1	1.1	1.2	0.8	0.7	0.7	0.9	1.1	1.4	1.4	1.1
1957	1.1	1.2	1.0	1.2	1.0	1.0	0.8	0.8	1.0	1.1	1.9	1.8	1.2
1958	1.1	1.7	0.8	1.1	1.2	1.3	0.8	1.1	1.2	1.4	1.8	1.6	1.3
1959	1.1	1.4	1.4	1.4	1.2	1.1	0.9	0.9	1.2	1.3	1.5	1.5	1.3
1960	1.1	1.6	1.1	1.1	0.9	0.8	0.8	0.7	1.1	1.1	1.7	1.9	1.2
1961	1.1	1.1	1.4	1.0	1.0	1.1	0.7	0.8	0.9	1.2	1.3	1.4	1.1
1962	1.1	1.2	0.9	1.4	1.0	0.8	0.9	0.7	1.2	0.9	1.1	1.4	1.1
1963	1.1	1.3	1.1	1.3	0.9	0.6	0.8	0.8	0.8	0.9	1.4	1.2	1.0
1964	1.1	1.4	1.6	1.4	1.5	0.9	0.7	1.1	1.1	1.2	1.4	1.3	1.1
1965	1.1	1.7	1.1	0.9	0.9	0.9	0.8	0.9	1.0	1.4	1.4	1.1	1.1
1966	1.1	1.6	1.1	1.1	1.0	1.2	0.9	0.9	1.1	1.5	1.2	1.3	1.1
1967	1.1	1.4	0.8	1.2	0.8	0.8	0.7	0.9	0.9	1.2	1.4	1.1	1.1
1968	1.1	1.6	1.1	1.1	0.8	0.8	0.9	0.9	1.1	1.2	1.4	1.1	1.1
1969	1.1	1.0	1.0	1.1	0.8	0.8	0.9	0.9	1.1	1.1	1.1	1.1	1.1
1970	0.8	1.1	0.8	0.8	0.8	0.8	0.9	0.9	0.9	1.1	1.1	1.1	1.1
1971	0.8	1.6	1.1	0.8	0.8	0.8	0.9	0.9	0.9	1.1	1.1	1.1	1.1
1972	0.8	1.1	0.8	0.8	0.8	0.8	0.9	0.9	0.9	1.1	1.1	1.1	1.1
1973	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1974	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1975	1.0	0.9	0.9	1.1	0.4	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.8
1976	1.1	1.2	1.3	1.0	0.8	0.8	0.7	0.5	0.7	0.9	1.1	1.1	0.9
1977	1.1	1.0	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.8	1.0	1.0	0.8
1978	1.1	0.7	0.6	0.8	0.6	0.7	0.6	0.5	0.5	0.8	0.8	1.1	0.8
1979	1.1	0.9	0.8	0.8	0.6	0.7	0.4	0.6	0.6	0.9	0.9	1.1	0.8
1980	1.0	0.7	1.0	0.7	0.6	0.7	0.4	0.4	0.7	1.0	1.0	1.0	0.8
1981	0.8	1.1	1.2	1.1	0.6	0.6	0.5	0.4	0.7	0.7	0.9	0.9	0.8
1982	1.1	0.7	0.8	1.2	0.5	0.5	0.5	0.6	0.6	0.7	0.9	1.0	0.6
1983	0.9	0.7	0.8	0.8	0.7	0.4	0.5	0.4	0.6	0.6	1.1	1.0	0.7
1984	0.9	0.8	1.1	0.8	0.8	0.6	0.5	0.3	0.5	0.5	0.9	0.9	0.7
1985	1.1	0.8	1.0	0.8	0.6	0.7	0.7	0.4	0.5	0.7	0.8	1.0	0.8
1986	1.1	0.7	1.0	0.8	0.7	0.6	0.5	0.5	0.5	0.6	0.8	0.8	0.7
1987	0.9	0.7	0.8	0.9	0.6	0.6	0.5	0.6	0.5	0.7	1.0	1.1	0.7
MEAN	1.2	1.1	1.0	1.0	0.8	0.7	0.6	0.6	0.8	1.0	1.2	1.2	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H44 (44.18N 81.72W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.3	5.5	6.7	3.3	5.5	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1957	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1958	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1959	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1960	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1961	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1962	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1963	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1964	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1965	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1966	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1967	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1968	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1969	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1970	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1971	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1972	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1973	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1974	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1975	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1976	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1977	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1978	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1979	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1980	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1981	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1982	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1983	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1984	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1985	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1986	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	
1987	3.3	6.0	6.0	3.3	3.3	3.3	2.4	2.4	3.3	3.7	5.5	5.1	

32 YR. STATISTICS FOR WIS STATION H44

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.9
MEAN PEAK WAVE PERIOD	(SECONDS)	4.3
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	225.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.8
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.5
LARGEST WAVE HS	(METERS)	9.8
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	12.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	308.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		63040421

STATION H45 44.05N 81.93W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	203	585	335	80	6						1209
0.50-0.99		408	810	643	154	8					2023
1.00-1.49			135	438	387	95	4				1059
1.50-1.99				211	347	167	19				752
2.00-2.49					170	136	42				352
2.50-2.99				2	23	86	64	1			176
3.00-3.49						45	37	2	2		86
3.50-3.99						5	38	4			47
4.00-4.49							25	1			26
4.50-4.99							8	2			10
5.00-5.49									1		1
5.50-5.99										1	0
6.00-6.49								1			1
6.50-6.99											0
7.00+											0
TOTAL	203	993	1288	1378	1087	542	237	11	3	0	
MEAN HS(M) = 1.1	LARGEST HS(M) = 6.3		MEAN TP (SEC) = 4.8		NO. OF CASES = 5385.						

STATION H45 44.05N 81.93W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	219	532	290	57							1098
0.50-0.99	.	363	749	556	146	6	.	.	.	.	1820
1.00-1.49	.	.	.	347	335	42	1	.	.	.	931
1.50-1.99	.	.	206	179	266	70	9	.	.	.	526
2.00-2.49	.	.	2	9	117	70	10	.	.	.	206
2.50-2.99	28	71	4	.	.	.	103
3.00-3.49	5	34	18	.	.	.	57
3.50-3.99	2	27	1	.	.	30
4.00-4.49	1	11	.	.	.	12
4.50-4.99	1
5.00-5.49	1	.	.	.	1
5.50-5.99	0
6.00-6.49	1	.	.	.	1
6.50-6.99	0
7.00+	0
TOTAL	219	895	1247	1148	897	296	83	1	0	0	
MEAN HS (M) = 1.0	LARGEST HS (M) = 8.1		MEAN TP (SEC) = 4.6		NO. OF CASES = 4491.						

STATION H45 44.05N 81.93W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	238	667	382	80	6						1373
0.50-0.99		347	779	560	140	5					1831
1.00-1.49			252	199	182	20					653
1.50-1.99				178	118	21					321
2.00-2.49			4	32	105	38					176
2.50-2.99					39	23	1				65
3.00-3.49					11	8	6				25
3.50-3.99						6	1				7
4.00-4.49						2					2
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	238	1014	1417	1049	601	123	11	0	0	0	
MEAN HS (M) = 0.8	LARGEST HS (M) = 4.2		MEAN TP (SEC) = 4.3		NO. OF CASES = 4177.						

STATION H45 44.05N 81.93W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	296	583	313	80	3	1	.	.	.	.	1276
0.50-0.99	.	421	412	345	103	4	.	.	.	.	1285
1.00-1.49	.	.	145	71	79	12	1	.	.	.	308
1.50-1.99	.	.	16	87	33	10	1	.	.	.	147
2.00-2.49	.	.	.	25	21	4	2	.	.	.	52
2.50-2.99	8
3.00-3.49	5	1	2	.	.	.	8
3.50-3.99	1	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	296	1074	886	608	251	33	7	0	0	0	
MEAN HS (M) = 0.6	LARGEST HS (M) = 3.5		MEAN TP (SEC) = 3.9		NO. OF CASES = 2895.						

STATION H45 44.05N 81.93W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.1 MEAN TP(SEC)= 3.6 NO. OF CASES= 3305.

STATION H45 44.05N 81.93W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.5 MEAN TP(SEC)= 3.5 NO. OF CASES= 3258

STATION H45 44.05N 81.93W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 0.5 LARGEST HS(M)= 4.0 MEAN TP(SEC)= 3.4 NO. OF CASES= 3138

STATION H45 44.05N 81.93W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 0.5 LARGEST HS(M)= 3.5 MEAN TP(SEC)= 3.4 NO. OF CASES= 3376

MEAN BS(M) = 0.9 LARGEST BS(M) = 7.0 MEAN TP(SEC) = 4.2 NO. OF CASES = 7981.

MEAN HS(M) = 1.0 LARGEST HS(M)= 6.7 MEAN TP(SEC)= 4.5 NO. OF CASES= 13590.

MEAN HS(M) = 1.0 LARGEST HS(M) = 6.1 MEAN TP(SEC) = 4.4 NO. OF CASES = 7579.

MEAN HS(M) = 0.9 LARGEST HS(M)= 5.7 MEAN TP(SEC)= 4.3 NO. OF CASES= 5258.

STATION H45 44.05N 81.93W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	260	1024	316	60	2						1662
0.50-0.99		486	1364	657	149	17	3				2676
1.00-1.49			156	731	222	33	9				1151
1.50-1.99			2	311	555	48	6				922
2.00-2.49				1	306	114	4				426
2.50-2.99					42	198	21		1		426
3.00-3.49						122	3		1		264
3.50-3.99						8	74				157
4.00-4.49							43				82
4.50-4.99							18				45
5.00-5.49							3				21
5.50-5.99											4
6.00-6.49							1				0
6.50-6.99											0
7.00+											0
TOTAL	260	1510	1838	1760	1276	540	216	18	0	0	
MEAN HS(M) = 1.1	LARGEST HS(M)=		5.8	MEAN TP(SEC)=		4.7	NO. OF CASES=		6953.		

STATION H45 44.05N 81.93W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	219	944	300	54	2						1519
0.50-0.99		531	1458	842	140	11					2982
1.00-1.49			189	855	381	74	14				1513
1.50-1.99				298	603	79	17				999
2.00-2.49			1	4	332	208	24	1			569
2.50-2.99					40	253	48	3			344
3.00-3.49						119	48	2	1		170
3.50-3.99						10	89	3	3		105
4.00-4.49							31	4			32
4.50-4.99								1			22
5.00-5.49								5			5
5.50-5.99											1
6.00-6.49								1	1		2
6.50-6.99											0
7.00+											0
TOTAL	219	1475	1948	2053	1498	754	289	22	5	0	
MEAN HS (M) = 1.1	LARGEST HS (M) = 6.4		MEAN TP (SEC) = 4.8		NO. OF CASES = 7742.						

STATION H45 44.05N 81.93W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	189	751	340	85	7						1372
0.50-0.99		498	1316	871	185	25	2	.	.	.	2897
1.00-1.49	.	.	170	829	533	142	12	.	.	.	1686
1.50-1.99	.	.	3	375	700	236	56	.	.	.	1370
2.00-2.49	.	.	.	4	389	327	104	5	.	.	829
2.50-2.99	.	.	.	.	59	283	135	3	.	.	480
3.00-3.49	.	.	.	.	.	139	128	13	3	.	283
3.50-3.99	.	.	.	.	.	12	157	12	2	.	183
4.00-4.49	.	.	.	.	.	.	87	13	.	.	100
4.50-4.99	.	.	.	.	.	.	16	21	.	.	39
5.00-5.49	.	.	.	.	.	.	1	2	3	.	27
5.50-5.99	.	.	.	.	.	.	.	1	1	.	10
6.00-6.49	.	.	.	.	.	.	.	.	1	.	2
6.50-6.99	.	.	.	.	.	.	.	.	1	.	1
7.00+	.	.	.	.	.	.	.	.	2	.	2
TOTAL	189	1249	1829	2164	1873	1164	700	93	20	0	
MEAN HS (M) = 1.3	LARGEST HS (M) = 7.5		MEAN TP (SEC) = 5.2		NO. OF CASES = 8698.						

STATION H45 44.05N 81.93W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	168	489	237	50	4	.	.	.	.	.	948
0.50-0.99	.	436	886	545	168	13	.	.	.	.	2048
1.00-1.49	.	.	142	529	426	89	2	.	.	.	1188
1.50-1.99	.	.	.	223	440	186	32	.	.	.	891
2.00-2.49	.	.	.	8	185	202	67	1	.	.	463
2.50-2.99	26	127	94	1	.	.	248
3.00-3.49	48	68	16	.	.	132
3.50-3.99	64	7	.	.	71
4.00-4.49	35	4	3	.	42
4.50-4.99	5	5	2	.	12
5.00-5.49	4	.	.	4
5.50-5.99	3	5	.	8
6.00-6.49	1	.	1
6.50-6.99	0
7.00+	0
TOTAL	168	925	1265	1355	1249	675	367	41	11	0	
MEAN HS (M) = 1.2	LARGEST HS (M) = 6.3		MEAN TP (SEC) = 5.1		NO. OF CASES = 5678.						

STATION H45 44.05N 81.93W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

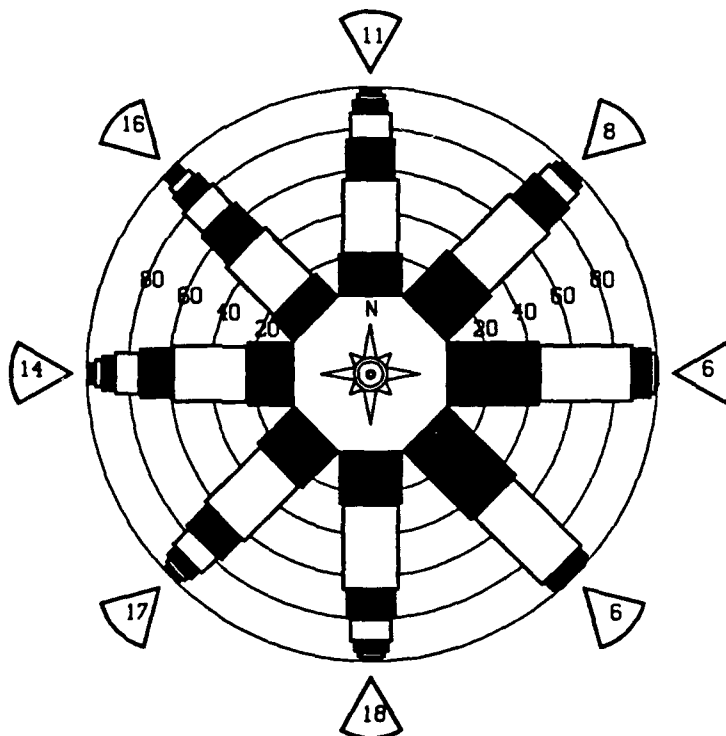
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-11.0+ LONGER	
0.00-0.49	524	1378	522	136	7	16	1	.	.	.	2567
0.50-0.99	.	1082	1704	841	187	60	1	.	.	.	3831
1.00-1.49	.	.	321	751	338	123	1	.	.	.	1475
1.50-1.99	.	.	13	404	517	92	1	.	.	.	1041
2.00-2.49	.	.	.	13	347	123	1	.	.	.	509
2.50-2.99	59	176	1	.	.	.	275
3.00-3.49	2	102	1	.	.	.	144
3.50-3.99	11	1	.	.	.	71
4.00-4.49	1	.	.	.	35
4.50-4.99	1	.	.	.	13
5.00-5.49	1	.	.	.	5
5.50-5.99	1	.	.	.	3
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	524	2460	2560	2145	1457	580	225	17	1	0	

MEAN HS(M)= 1.0 LARGEST HS(M)= 7.5 MEAN TP(SEC)= 4.4 TOTAL CASES= 93504.

STATION 45
44.05N, 81.93 W
93504 CASES



OVER 3.0 M
2.5-2.9 M
2.0-2.4 M
1.5-1.9 M
1.0-1.4 M
0.5-0.9 M
0.0-0.4 M



MEAN HS(METERS) BY MONTH AND YEAR

WIS STATION H45 (44.05N 81.93W)

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.1	1.0	1.1	1.1	1.2	0.8	0.6	0.7	0.9	1.2	1.4	1.2	1.0
1957	1.4	1.3	1.0	1.1	1.0	0.9	0.7	0.7	0.9	1.2	1.4	1.2	1.0
1958	1.4	1.6	0.8	1.1	1.1	1.2	0.8	0.7	1.1	1.4	1.8	1.6	1.3
1959	1.7	1.5	1.5	1.5	1.4	1.1	1.1	1.0	1.1	1.4	1.6	1.5	1.4
1960	1.5	1.7	1.2	1.2	1.0	0.8	0.8	0.7	0.7	1.0	1.8	2.0	1.2
1961	1.5	1.2	1.5	1.0	1.0	1.1	0.7	0.8	1.0	1.3	1.3	1.4	1.1
1962	1.7	1.1	0.8	1.3	0.8	0.8	0.8	0.7	1.2	0.8	1.1	1.5	1.1
1963	1.3	1.3	1.1	1.3	0.8	0.6	0.8	0.8	0.8	0.8	1.4	1.1	1.0
1964	1.6	1.4	1.6	1.5	1.4	1.0	0.7	1.1	1.1	1.3	1.3	1.3	1.3
1965	1.5	1.7	1.1	0.9	0.9	0.9	0.8	0.8	1.0	1.4	1.4	1.3	1.1
1966	1.5	1.1	1.4	1.0	0.7	0.8	0.7	0.8	1.0	1.7	1.2	1.1	1.1
1967	1.5	1.6	0.9	1.2	1.0	0.6	0.7	0.7	0.8	1.3	1.4	1.3	1.1
1968	1.3	1.6	1.4	1.5	0.8	0.8	0.8	1.0	0.8	1.2	1.4	1.7	1.2
1969	1.3	1.1	0.9	1.1	0.8	0.8	0.7	0.7	0.8	1.2	1.1	1.1	1.1
1970	0.9	0.9	0.9	1.1	1.1	0.8	0.5	0.5	0.8	1.2	1.3	1.2	1.0
1971	1.7	1.6	1.4	1.1	0.8	0.6	0.6	0.6	0.6	0.7	1.1	1.1	1.0
1972	1.4	1.1	1.4	0.8	0.8	0.8	0.8	0.8	0.8	1.0	0.9	1.1	0.9
1973	1.4	0.8	0.8	0.8	0.7	0.6	0.5	0.5	0.6	0.7	1.2	0.8	0.8
1974	0.9	0.8	0.8	0.8	0.7	0.6	0.4	0.4	0.6	0.7	1.1	0.8	0.8
1975	1.1	1.1	0.8	1.1	0.8	0.5	0.5	0.5	0.6	0.8	1.0	1.1	0.8
1976	1.1	1.1	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1977	1.1	1.1	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1978	1.1	1.1	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1979	1.1	1.1	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1980	1.1	1.1	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1981	1.1	1.1	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1982	1.1	1.1	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1983	1.1	1.1	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1984	1.1	1.1	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1985	1.1	1.1	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1986	1.1	1.1	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1987	0.9	0.7	0.8	1.0	0.7	0.6	0.6	0.6	0.6	0.8	1.1	1.2	0.8
MEAN	1.3	1.1	1.1	1.1	0.9	0.7	0.7	0.6	0.8	1.0	1.2	1.2	

LARGEST HS(METERS) BY MONTH AND YEAR

WIS STATION H45 (44.05N 81.93W)

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.7	4.4	5.4	3.3	4.6	3.3	3.2	3.2	3.2	4.3	4.9	3.8
1957	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1958	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1959	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1960	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1961	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1962	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1963	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1964	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1965	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1966	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1967	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1968	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1969	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1970	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1971	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1972	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1973	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1974	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1975	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1976	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1977	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1978	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1979	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1980	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1981	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1982	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1983	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1984	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1985	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1986	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1987	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4

32 YR. STATISTICS FOR WIS STATION H45

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	1.0
MEAN PEAK WAVE PERIOD	(SECONDS)	4.4
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	202.5
STANDARD DEVIATION OF WAVE HS	(METERS)	0.8
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.4
LARGEST WAVE HS	(METERS)	7.5
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	10.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	310.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		63040418

STATION H46 43.90N 81.93W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	235	484	382	102	10	.	.	.	.	.	1213
0.50-0.99	.	443	826	603	179	13	.	.	.	.	2064
1.00-1.49	.	.	175	416	396	137	5	.	.	.	1129
1.50-1.99	.	.	4	228	313	179	29	.	.	.	753
2.00-2.49	.	.	.	6	171	140	67	1	.	.	385
2.50-2.99	.	.	.	1	27	84	77	2	.	.	191
3.00-3.49	2	40	44	6	1	.	93
3.50-3.99	7	48	6	.	.	61
4.00-4.49	17	4	.	.	21
4.50-4.99	10	.	.	.	17
5.00-5.49	1	1	.	2
5.50-5.99	1
6.00-6.49	0
6.50-6.99	0
7.00+	1	.	.	1
TOTAL	235	927	1387	1356	1098	600	298	28	2	0	
MEAN HS(M) = 1.1	LARGEST HS(M)= 7.2		MEAN TP(SEC)= 4.9		NO. OF CASES= 5564.						

STATION H46 43.90N 81.93W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	232	464	322	104	4	1	.	.	.	.	1127
0.50-0.99	.	432	597	546	202	12	.	.	.	.	1789
1.00-1.49	.	.	134	275	375	70	3	.	.	.	856
1.50-1.99	.	.	8	95	182	113	14	.	.	.	412
2.00-2.49	.	.	.	1	51	73	10	.	.	.	135
2.50-2.99	.	.	.	1	9	45	20	.	.	.	75
3.00-3.49	17	16	2	.	.	35
3.50-3.99	1	1	10	.	.	.	12
4.00-4.49	4	.	.	.	4
4.50-4.99	0
5.00-5.49	1	.	.	.	1
5.50-5.99	0
6.00-6.49	1	.	.	.	1
6.50-6.99	0
7.00+	0
TOTAL	232	896	1061	1021	824	332	79	2	0	0	
MEAN HS (M) = 0.9	LARGEST HS (M) = 6.0		MEAN IP (SEC) = 4.6		NO. OF CASES = 4173.						

STATION H46 43.90N 81.93W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	295	571	481	149	13						1509
0.50-0.99		667	442	536	190	16	1	.	.	.	1852
1.00-1.49			122	182	316	48	2	.	.	.	670
1.50-1.99			26	53	103	71	3	.	.	.	256
2.00-2.49				13	17	59	5	1	.	.	95
2.50-2.99				3		24	12	.	.	.	42
3.00-3.49					3	1		.	.	.	13
3.50-3.99							2	.	.	.	2
4.00-4.49								.	.	.	0
4.50-4.99								.	.	.	0
5.00-5.49								.	.	.	0
5.50-5.99								.	.	.	0
6.00-6.49								.	.	.	0
6.50-6.99								.	.	.	0
7.00+								.	.	.	0
TOTAL	295	1238	1071	936	645	219	34	1	0	0	
MEAN HS (M) = 0.7	LARGEST HS (M) = 3.6		MEAN TP (SEC) = 4.3		NO. OF CASES = 4165.						

STATION H46 43.90N 81.93W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	355	531	353	117	11	2					1368
0.50-0.99		644	264	395	170	5	1	.	.	.	1479
1.00-1.49	.	.	129	63	143	29	1	.	.	.	365
1.50-1.99	.	.	33	42	32	29	4	.	.	.	140
2.00-2.49	.	.	.	16	1	14	4	.	.	.	35
2.50-2.99	.	.	.	3			9	.	.	.	12
3.00-3.49	.	.	.		1	.	.	.	.	.	1
3.50-3.99	.	.	.	.	.	.	.	.	.	.	0
4.00-4.49	.	.	.	.	.	.	.	.	.	.	0
4.50-4.99	.	.	.	.	.	.	.	.	.	.	0
5.00-5.49	.	.	.	.	.	.	.	.	.	.	0
5.50-5.99	.	.	.	.	.	.	.	.	.	.	0
6.00-6.49	.	.	.	.	.	.	.	.	.	.	0
6.50-6.99	.	.	.	.	.	.	.	.	.	.	0
7.00+	.	.	.	.	.	.	.	.	.	.	0
TOTAL	355	1175	779	636	358	79	19	0	0	0	
MEAN HS (M) = 0.6	LARGEST HS (M) = 3.0		MEAN TP (SEC) = 3.9		NO. OF CASES = 3191.						

STATION H46 43.90N 81.93W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	423	696	357	137	11	1	.	.	.	.	1625
0.50-0.99	.	868	223	315	131	6	.	.	.	.	1544
1.00-1.49	.	.	172	12	62	19	4	.	.	.	269
1.50-1.99	.	.	38	20	8	6	2	.	.	.	74
2.00-2.49	.	.	.	10	.	.	.	.	.	.	10
2.50-2.99	.	.	.	1	2	.	.	.	.	.	3
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	423	1564	790	495	214	32	7	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.7 MEAN TP(SEC)= 3.6 NO. OF CASES= 3305.

STATION H46 43.90N 81.93W AZIMUTH(DEGREES) = 112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	488	630	331	110	11	.	.	.	.	.	1570
0.50-0.99	.	1014	337	189	88	12	.	.	.	.	1640
1.00-1.49	.	.	242	5	18	19	2	.	.	.	286
1.50-1.99	.	.	34	51	1	.	1	.	.	.	87
2.00-2.49	.	.	.	8	.	.	.	.	.	.	8
2.50-2.99	0
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	488	1644	944	363	118	31	3	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.4 MEAN TP(SEC)= 3.5 NO. OF CASES= 3367.

STATION H46 43.90N 81.93W AZIMUTH(DEGREES) = 135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	573	666	371	129	14	2	.	.	.	.	1755
0.50-0.99	.	1012	334	155	60	3	.	.	.	.	1566
1.00-1.49	.	.	170	1	10	8	3	.	.	.	192
1.50-1.99	.	.	3	4	6	1	2	.	.	.	47
2.00-2.49	7
2.50-2.99	2
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	1	.	.	.	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	573	1678	878	332	89	15	7	0	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 4.7 MEAN TP(SEC)= 3.4 NO. OF CASES= 3348.

STATION H46 43.90N 81.93W AZIMUTH(DEGREES) = 157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	548	705	320	132	16	1	1	.	.	.	1723
0.50-0.99	.	1156	456	130	85	7	.	.	.	.	1834
1.00-1.49	.	.	154	34	6	8	1	.	.	.	203
1.50-1.99	.	.	6	42	6	1	.	.	.	.	55
2.00-2.49	.	.	.	6	4	.	.	.	.	.	10
2.50-2.99	4	1	.	.	.	.	5
3.00-3.49	2	.	.	.	.	2
3.50-3.99	1	.	.	.	.	1
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	548	1861	936	344	121	21	2	0	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 3.5 MEAN TP(SEC)= 3.4 NO. OF CASES= 3593.

STATION H46 43.90N 81.93W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	576	1244	402	146	13						2381
0.50-0.99		1078	1914	329	78	13	2	.	.	.	3414
1.00-1.49			387	705	43	12	1	.	.	.	1148
1.50-1.99			1	537	249	5	2	.	.	.	794
2.00-2.49				12	296	4		.	.	.	312
2.50-2.99					72	80	.	.	.	.	152
3.00-3.49						36	.	.	.	.	36
3.50-3.99						10	6	.	.	.	16
4.00-4.49								.	.	.	1
4.50-4.99								.	.	.	1
5.00-5.49							1	.	.	.	3
5.50-5.99								1	.	.	1
6.00-6.49									1	.	1
6.50-6.99										.	0
7.00+											0
TOTAL	576	2322	2704	1729	751	160	25	1	0	0	
MEAN BS(M) = 0.9	LARGEST BS(M)=		6.2	MEAN TP(SEC)=		4.0	NO. OF CASES=		7744.		

STATION H46 43.80N 81.93W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL	
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER		
0.00-0.49	576	2014	619	178	12	2					3401	
0.50-0.99	.	1179	3334	1314	137	14	1	.	.	.	5979	
1.00-1.49	.	.	322	1563	387	17	.	.	.	.	2289
1.50-1.99	.	.	2	929	928	32	.	.	.	.	1891
2.00-2.49	.	.	.	2	817	51	2	.	.	.	872	
2.50-2.99	161	276	4	.	.	.	441	
3.00-3.49	174	11	.	.	.	185	
3.50-3.99	29	24	.	.	.	53	
4.00-4.49	21	.	.	.	21	
4.50-4.99	9	.	.	.	9	
5.00-5.49	1	2	.	.	3	
5.50-5.99	0	
6.00-6.49	1	.	.	1	
6.50-6.99	0	
7.00+	0	
TOTAL	576	3193	4277	3986	2442	595	73	3	0	0		
MEAN HS(M) = 1.0	LARGEST HS(M)= 6.4										MEAN TP(SEC)= 4.4	NO. OF CASES= 14176.

STATION H46 43.80N 81.93W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	518	1132	394	160	19						2223
0.50-0.99	.	694	1665	522	106	20	2	.	.	.	3009
1.00-1.49	.	.	189	748	103	9	4	.	.	.	1053
1.50-1.99	.	.	1	443	454	5	7	.	.	.	910
2.00-2.49	.	.	.	7	435	10	3	.	.	.	455
2.50-2.99	79	187	6	.	.	.	272
3.00-3.49	1	114	5	.	.	.	120
3.50-3.99	23	44	.	.	.	67
4.00-4.49	1	35	.	.	.	36
4.50-4.99	19	.	.	.	19
5.00-5.49	8	.	.	.	8
5.50-5.99	1	.	.	1
6.00-6.49	3	.	.	3
6.50-6.99	0
7.00+	0
TOTAL	518	1826	2249	1880	1197	369	133	10	0	0	
MEAN HS (M) = 1.0	LARGEST HS (M) = 6.2		MEAN TP (SEC) = 4.4		NO. OF CASES = 7666.						

STATION H46 43.90N 81.93W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	372	717	295	124	12						1520
0.50-0.99		474	999	372	116	32	3	.	.	.	1896
1.00-1.49			175	607	44	18	8				853
1.50-1.99			2	420	196	4	6				628
2.00-2.49				3	278	2	1	2			286
2.50-2.99					75	74	1				150
3.00-3.49						54	1				55
3.50-3.99						11	11				22
4.00-4.49						1	14				15
4.50-4.99							3				3
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	372	1191	1471	1526	721	197	50	2	0	0	
MEAN HS(M) = 1.0	LARGEST HS(M)=		5.3	MEAN TP(SEC)=		4.3	NO. OF CASES=		5185.		

STATION H46 43.90N 81.93W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	335	768	347	105	12						1567
0.50-0.99		482	1020	439	191	33	2				2167
1.00-1.49			212	568	131	51	23				985
1.50-1.99			1	595	105	19	11				731
2.00-2.49				5	281	2	4				292
2.50-2.99					116	22	3	1			142
3.00-3.49					2	42	1				44
3.50-3.99						12			1		14
4.00-4.49						3					3
4.50-4.99							1				1
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	335	1250	1580	1712	838	184	45	1	1	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.7 MEAN TP(SEC)= 4.4 NO. OF CASES= 5575.

STATION H46 43.90N 81.93W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	298	741	428	106	4						1577
0.50-0.99		575	1156	783	278	21	5				2818
1.00-1.49			222	652	398	120	18				1410
1.50-1.99			2	603	241	110	25	2			983
2.00-2.49				32	372	89	45				548
2.50-2.99					142	50	38	5	1		236
3.00-3.49					13	71	24	2	1		111
3.50-3.99						24	9	5	2		40
4.00-4.49							5				6
4.50-4.99							2				6
5.00-5.49							1	2			3
5.50-5.99									1		1
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	298	1316	1808	2176	1448	495	172	21	5	0	

MEAN HS(M) = 1.1 LARGEST HS(M)= 5.5 MEAN TP(SEC)= 4.7 NO. OF CASES= 7253.

STATION H46 43.90N 81.93W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	233	621	454	115	8						1431
0.50-0.99		504	1273	950	265	25					3017
1.00-1.49		1	188	780	654	156	24				1803
1.50-1.99				444	690	276	75				1488
2.00-2.49				14	394	302	118	6			834
2.50-2.99					77	268	145	8			499
3.00-3.49					4	170	118	13	1		306
3.50-3.99						9	148	16	4		167
4.00-4.49							86	12	1		99
4.50-4.99							18	18	1		37
5.00-5.49							1	19	3		23
5.50-5.99								4	11		15
6.00-6.49											0
6.50-6.99											0
7.00+									2		2
TOTAL	233	1126	1915	2303	2092	1207	733	89	23	0	

MEAN HS(M) = 1.3 LARGEST HS(M)= 7.4 MEAN TP(SEC)= 5.2 NO. OF CASES= 9112.

STATION H46 43.90N 81.93W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	207	442	270	87	10						1016
0.50-0.99		455	992	579	196	17					2239
1.00-1.49			166	504	482	103	7				1262
1.50-1.99			1	251	432	223	41				948
2.00-2.49				5	192	191	79	1			468
2.50-2.99					25	152	103	2	1		283
3.00-3.49						43	65	19			127
3.50-3.99						2	66	6	1		75
4.00-4.49							38	2	3		43
4.50-4.99							2	10	4		16
5.00-5.49								5			5
5.50-5.99								2	4	1	7
6.00-6.49									1		1
6.50-6.99											0
7.00+											0
TOTAL	207	897	1429	1426	1337	731	401	47	14	1	

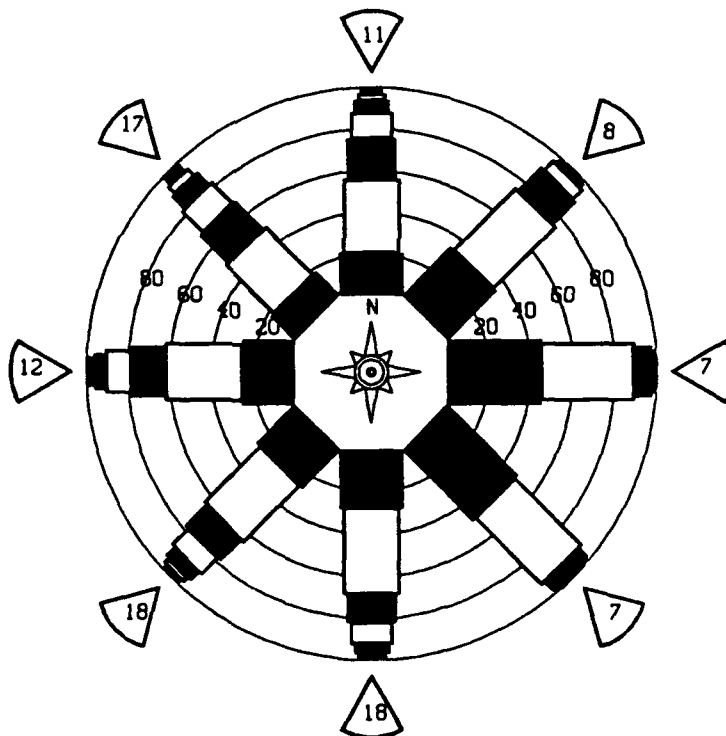
MEAN HS(M) = 1.2 LARGEST HS(M)= 6.2 MEAN TP(SEC)= 5.1 NO. OF CASES= 6087.

STATION H46 43.90N 81.93W FOR ALL DIRECTIONS										
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER
0.00-0.49	627	1243	613	201	19	.	.	.	.	2703
0.50-0.99	.	1168	1584	816	248	25	2	.	.	3843
1.00-1.49	.	.	316	712	357	83	11	.	.	1479
1.50-1.99	.	.	16	480	394	108	22	.	.	1020
2.00-2.49	.	.	.	15	331	95	34	1	.	476
2.50-2.99	79	127	42	1	.	249
3.00-3.49	2	76	29	4	.	111
3.50-3.99	13	37	2	.	52
4.00-4.49	23	2	.	25
4.50-4.99	6	4	.	10
5.00-5.49	1	3	.	4
5.50-5.99	1	1	2
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	627	2411	2529	2224	1430	527	207	18	1	0
MEAN HS(M)= 0.9 LARGEST HS(M)= 7.4 MEAN TP(SEC)= 4.4 TOTAL CASES= 93504.										

STATION 46
43.90N, 81.93 W
93504 CASES



OVER 3.0 M
2.5-2.9 M
2.0-2.4 M
1.5-1.9 M
1.0-1.4 M
0.5-0.9 M
0.0-0.4 M



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H46 (43.90N 81.93W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
YEAR													
1956	1.0	1.0	1.0	1.0	1.1	0.8	0.6	0.6	0.8	1.1	1.3	1.2	1.0
1957	1.4	1.1	0.9	1.0	1.1	0.9	0.7	0.6	0.9	1.1	1.7	1.6	1.1
1958	1.3	1.6	0.7	1.0	1.1	1.2	1.1	1.1	1.3	1.1	1.7	1.5	1.2
1959	1.6	1.5	1.4	1.4	1.1	1.1	1.0	1.0	1.3	1.3	1.5	1.4	1.3
1960	1.4	1.7	1.1	1.1	1.0	0.8	0.7	0.7	1.0	1.0	1.7	1.8	1.1
1961	1.4	1.1	1.4	1.0	1.0	1.0	0.6	0.7	0.8	1.1	1.2	1.2	1.1
1962	1.1	1.0	0.8	1.2	1.2	0.7	0.8	0.7	1.1	1.0	1.0	1.4	1.0
1963	1.1	1.2	1.1	1.2	1.0	0.8	0.6	0.7	0.7	1.0	1.3	1.0	1.0
1964	1.1	1.2	1.1	1.2	1.1	0.8	0.6	0.7	0.7	1.1	1.2	1.1	1.1
1965	1.1	1.6	1.0	0.8	1.1	0.8	0.6	0.8	1.0	1.1	1.3	1.1	1.1
1966	1.4	1.4	1.4	1.1	1.1	0.8	0.7	0.7	0.8	1.1	1.3	1.2	1.1
1967	1.1	1.1	1.4	1.1	1.1	0.8	0.6	0.6	0.8	1.1	1.1	1.1	1.1
1968	1.2	1.5	0.8	1.4	0.8	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
1969	1.3	0.9	0.8	1.1	0.7	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
1970	0.8	1.2	0.8	1.0	1.0	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
1971	1.6	1.6	1.1	1.2	0.7	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1
1972	1.3	1.2	1.0	0.7	0.6	0.8	0.6	0.6	0.8	1.1	1.1	1.1	1.1
1973	1.3	0.8	0.8	0.9	0.7	0.6	0.6	0.6	0.8	1.1	1.1	1.1	1.1
1974	0.9	0.9	1.0	0.8	0.7	0.6	0.5	0.4	0.8	0.8	0.8	0.8	0.8
1975	1.0	0.8	0.8	1.0	0.5	0.5	0.4	0.6	0.8	0.8	1.0	1.0	0.8
1976	1.2	1.2	1.3	0.9	0.5	0.6	0.6	0.7	0.8	0.8	1.1	1.1	0.9
1977	1.0	1.0	0.9	0.7	0.6	0.6	0.6	0.6	0.7	0.8	1.0	1.0	0.8
1978	1.2	0.6	0.6	0.8	0.6	0.7	0.6	0.5	0.5	0.8	0.8	1.1	0.7
1979	1.1	0.9	0.8	0.8	0.9	0.7	0.4	0.6	0.6	1.0	0.9	1.2	0.8
1980	1.0	0.7	1.0	0.7	0.6	0.7	0.4	0.4	0.7	1.0	1.1	1.1	0.8
1981	0.9	1.3	1.0	0.7	0.8	0.7	0.6	0.5	0.7	0.8	0.9	1.0	0.9
1982	1.3	0.8	0.8	1.2	0.6	0.6	0.6	0.7	0.7	1.0	1.1	1.1	0.8
1983	1.0	0.8	0.8	0.8	0.8	0.5	0.6	0.4	0.7	0.6	1.4	1.1	0.8
1984	1.0	0.8	1.1	0.9	0.9	0.7	0.6	0.4	0.6	0.6	1.0	1.0	0.8
1985	1.1	0.9	1.1	0.8	0.7	0.6	0.6	0.4	0.6	0.7	0.8	1.1	0.8
1986	1.1	0.7	1.1	0.8	0.8	0.7	0.6	0.6	0.6	0.7	0.9	0.8	0.8
1987	0.9	0.7	0.8	0.8	0.7	0.6	0.6	0.6	0.6	0.8	1.1	1.1	0.8
MEAN	1.2	1.1	1.0	1.0	0.8	0.7	0.6	0.6	0.8	1.0	1.1	1.2	

LARGEST HS(METERS) BY MONTH AND YEAR

WIS STATION H46 (43.90N 81.93W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
YEAR													
1956	3.6	4.0	5.4	3.2	4.3	3.7	2.1	1.8	3.1	3.9	4.6	3.9	
1957	4.2	4.1	4.1	4.0	4.3	4.8	3.3	3.3	3.3	3.3	4.6	3.9	
1958	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1959	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1960	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1961	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1962	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1963	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1964	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1965	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1966	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1967	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1968	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1969	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1970	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1971	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1972	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1973	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1974	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1975	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1976	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1977	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1978	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1979	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1980	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1981	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1982	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1983	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1984	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1985	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1986	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	
1987	4.3	4.3	4.3	4.3	4.3	4.3	3.3	3.3	3.3	3.3	4.6	3.9	

32 YR. STATISTICS FOR WIS STATION H46

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	0.9
MEAN PEAK WAVE PERIOD (SECONDS)	4.4
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	202.5
STANDARD DEVIATION OF WAVE HS (METERS)	0.7
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.4
LARGEST WAVE HS (METERS)	7.4
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	10.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	310.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	63040418

STATION H47 43.75N 81.93W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	279	453	379	126	14						1251
0.50-0.99		418		914	588	217					2158
1.00-1.49			189	393	398	148	11				1139
1.50-1.99			3	228	286	199	44				761
2.00-2.49				9	171	139	79	1	1		400
2.50-2.99				1	34	80	85	3			203
3.00-3.49					4	43	37	13			97
3.50-3.99						6	42	5			53
4.00-4.49						1	23	7			29
4.50-4.99							3	1	1		19
5.00-5.49							1	1			1
5.50-5.99								1			0
6.00-6.49									1		1
6.50-6.99											1
7.00+											
TOTAL	279	871	1485	1345	1124	637	325	44	4	0	5735

MEAN HS(M) = 1.1 LARGEST HS(M)= 7.2 MEAN TP(SEC)= 4.9 NO. OF CASES= 5735.

STATION H47 43.75N 81.93W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	242	453	345	127	11	1					1179
0.50-0.99		478		567	505	22	1				1826
1.00-1.49			116	188	377	96	11				788
1.50-1.99			18	102	124	125	24				393
2.00-2.49				3	33	60	20				116
2.50-2.99					11	28	20				59
3.00-3.49						6	18	1			25
3.50-3.99						1	11				12
4.00-4.49							2				2
4.50-4.99								1			1
5.00-5.49											0
5.50-5.99								1			0
6.00-6.49								1			1
6.50-6.99											1
7.00+											
TOTAL	242	931	1046	925	809	339	107	4	0	0	4131

MEAN HS(M) = 0.9 LARGEST HS(M)= 6.6 MEAN TP(SEC)= 4.6 NO. OF CASES= 4131.

STATION H47 43.75N 81.93W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	324	504	475	163	18						1484
0.50-0.99		744		368	545	22	2				1914
1.00-1.49			166	86	299	82	2				635
1.50-1.99			32	75	68	79	6	1			261
2.00-2.49				36	2	36	7				81
2.50-2.99				9	6	5	17	1			38
3.00-3.49					1		6				7
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	324	1248	1041	914	627	224	40	2	0	0	4145

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.4 MEAN TP(SEC)= 4.3 NO. OF CASES= 4145.

STATION H47 43.75N 81.93W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	377	517	364	148	21	3					1430
0.50-0.99		686		239	365	204	10				1508
1.00-1.49			137	26	110	50	2				325
1.50-1.99			31	40	19	20	3				113
2.00-2.49				11	1	6	7				24
2.50-2.99							4				6
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	377	1203	771	592	355	89	17	0	0	0	3194

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.6 MEAN TP(SEC)= 3.9 NO. OF CASES= 3194.

STATION H47 43.75N 81.93W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	440	701	357	149	20						1667
0.50-0.99		886	182	310	161	10	1				1550
1.00-1.49			173	8	59	25	2				267
1.50-1.99			33	18	6	7	5				69
2.00-2.49				10	1						11
2.50-2.99				1	2						3
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	440	1587	745	496	249	42	8	0	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.9 MEAN TP(SEC)= 3.6 NO. OF CASES= 3345.

STATION H47 43.75N 81.93W AZIMUTH(DEGREES) = 112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	545	607	303	140	17						1612
0.50-0.99		1011	334	186	96	18					1645
1.00-1.49			233	3	18	23	2				279
1.50-1.99			29	55	2		1				87
2.00-2.49				8	1						9
2.50-2.99											0
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	545	1618	899	392	134	41	3	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.3 MEAN TP(SEC)= 3.5 NO. OF CASES= 3403.

STATION H47 43.75N 81.93W AZIMUTH(DEGREES) = 135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	599	633	411	154	24	2					1823
0.50-0.99		1035	340	161	83	9	2				1630
1.00-1.49			174	3	8	7	5				197
1.50-1.99			6	44	2						50
2.00-2.49				6	2						8
2.50-2.99					1						1
3.00-3.49					2						2
3.50-3.99											0
4.00-4.49											0
4.50-4.99						1					1
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	599	1668	931	368	120	19	7	0	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 4.7 MEAN TP(SEC)= 3.4 NO. OF CASES= 3479.

STATION H47 43.75N 81.93W AZIMUTH(DEGREES) = 157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	572	672	332	144	23	2	1				1746
0.50-0.99		1144	436	122	96	8	1				827
1.00-1.49			157	25	11	8	2				203
1.50-1.99			3	39	4						46
2.00-2.49				6	2						8
2.50-2.99					2						2
3.00-3.49											0
3.50-3.99						1					1
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	572	1816	948	336	145	19	4	0	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 3.6 MEAN TP(SEC)= 3.4 NO. OF CASES= 3600.

STATION H47 43.75N 81.93W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	619	1173	366	167	23						2348
0.50-0.99		1068	1743	217	82	20	2	.	.	.	3132
1.00-1.49			404	698	18	10	2	.	.	.	1132
1.50-1.99			3	496	127	4	2	.	.	.	632
2.00-2.49				11	220	2		.	.	.	233
2.50-2.99					77	17		.	.	.	94
3.00-3.49						11		.	.	.	11
3.50-3.99						12		.	.	.	12
4.00-4.49						1		.	.	.	2
4.50-4.99							3	.	.	.	3
5.00-5.49							1	.	.	.	1
5.50-5.99								.	.	.	0
6.00-6.49								.	.	.	0
6.50-6.99								.	.	.	0
7.00+								.	.	.	0
TOTAL	619	2241	2516	1589	547	77	12	0	0	0	
MEAN HS (M) = 0.8	LARGEST HS (M) = 5.4		MEAN TP (SEC) = 3.9		NO. OF CASES = 7117.						

STATION H47 43.75N 81.93W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	622	1987	614	179	20	2					3424
0.50-0.99		1194	3497	1258	108	20	1				6078
1.00-1.49			348	1989	290	17					2644
1.50-1.99			1	1230	605	28	2				1866
2.00-2.49				4	717	26	2				749
2.50-2.99					191	121					312
3.00-3.49						102					107
3.50-3.99						23					29
4.00-4.49							6				9
4.50-4.99							4				4
5.00-5.49								1			1
5.50-5.99											0
6.00-6.49								1			1
6.50-6.99											0
7.00+											0
TOTAL	622	3181	4460	4660	1931	338	29	2	0	0	
MEAN HS(M) = 1.0	LARGEST HS(M) = 6.0		MEAN TP (SEC) = 4.3		NO. OF CASES = 14249.						

STATION H47 43.75N 81.93W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	590	1237	418	187	19						2451
0.50-0.99		722	1729	530	118	23	1	.	.	.	3123
1.00-1.49	.	.	219	952	67	11	5	.	.	.	1254
1.50-1.99	.	.	1	654	267	6	3	1	.	.	935
2.00-2.49	.	.		3	416	6	6		.	.	428
2.50-2.99	.	.			135	65	2		.	.	202
3.00-3.49	.	.			2	59	2		.	.	73
3.50-3.99	.	.				36	4		.	.	40
4.00-4.49	.	.					21		.	.	21
4.50-4.99	.	.					0		.	.	7
5.00-5.49	.	.					0	1	.	.	2
5.50-5.99	.	.					1	1	.	.	0
6.00-6.49	.	.							.	.	0
6.50-6.99	.	.							.	.	0
7.00+	.	.							.	.	0
TOTAL	590	1959	2367	2326	1024	216	57	2	0	0	
MEAN HS (M) = 0.9	LARGEST HS (M) = 5.6		MEAN TP (SEC) = 4.3		NO. OF CASES = 7999.						

STATION H47 43.75N 81.93W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	371	687	297	139	26						1530
0.50-0.99		472	1059	362	121	34	7	.	.	.	2065
1.00-1.49			178	690	43	17	10	.	.	.	938
1.50-1.99			2	502	180	3	3	.	.	.	690
2.00-2.49				1	333		1	1	1	.	337
2.50-2.99					104			.	.	.	153
3.00-3.49						49	1	.	.	.	57
3.50-3.99						56	5	.	.	.	23
4.00-4.49						18		.	.	.	17
4.50-4.99							2	.	.	.	2
5.00-5.49							1	.	.	.	1
5.50-5.99								.	.	.	0
6.00-6.49								.	.	.	0
6.50-6.99								.	.	.	0
7.00+								.	.	.	0
TOTAL	371	1169	1546	1694	807	177	47	1	1	0	
MEAN HS(M) = 1.0	LARGEST HS(M)=		5.1	MEAN TP(SEC)=		4.4	NO. OF CASES=		5448.		

STATION H47 43.75N 81.93W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	394	750	355	130	18						1647
0.50-0.99		484	1032	405	182	49	4				2156
1.00-1.49			185	625	105	59	34	2			1010
1.50-1.99				604	147	14	13	2			780
2.00-2.49				2	270		4	1			277
2.50-2.99					128	19	1	1			149
3.00-3.49						43			1		44
3.50-3.99						13					13
4.00-4.49						1	3				4
4.50-4.99							1				1
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	394	1234	1572	1766	850	198	60	6	1	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.5 MEAN TP(SEC)= 4.4 NO. OF CASES= 5699.

STATION H47 43.75N 81.93W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	312	686	351	134	8	1					1492
0.50-0.99		565	1142	618	294	38	5				2662
1.00-1.49			211	624	304	140	34				1313
1.50-1.99			2	607	211	68	39	2			929
2.00-2.49				17	401	42	32	2			494
2.50-2.99					124	44	21	7	1		197
3.00-3.49					3	66	11	3			83
3.50-3.99						10	5		1		16
4.00-4.49							2		1		3
4.50-4.99							4				5
5.00-5.49							1	1			2
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	312	1251	1706	2000	1345	409	154	16	3	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.2 MEAN TP(SEC)= 4.7 NO. OF CASES= 6744.

STATION H47 43.75N 81.93W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	269	534	481	140	17						1441
0.50-0.99		542	1210	867	303	38	2				2962
1.00-1.49			175	713	632	199	22				1761
1.50-1.99			3	424	634	277	77				1404
2.00-2.49				12	409	265	118	10			821
2.50-2.99					79	272	115	10	1		485
3.00-3.49					2	280	105	13			284
3.50-3.99						161	108	4	2		177
4.00-4.49						8	167	5	4		76
4.50-4.99							67	5	4		41
5.00-5.49							17	20	2		21
5.50-5.99							2	17	2		17
6.00-6.49								7	10		3
6.50-6.99								1	2		0
7.00+									2		2
TOTAL	269	1076	1869	2156	2096	1223	691	88	27	0	

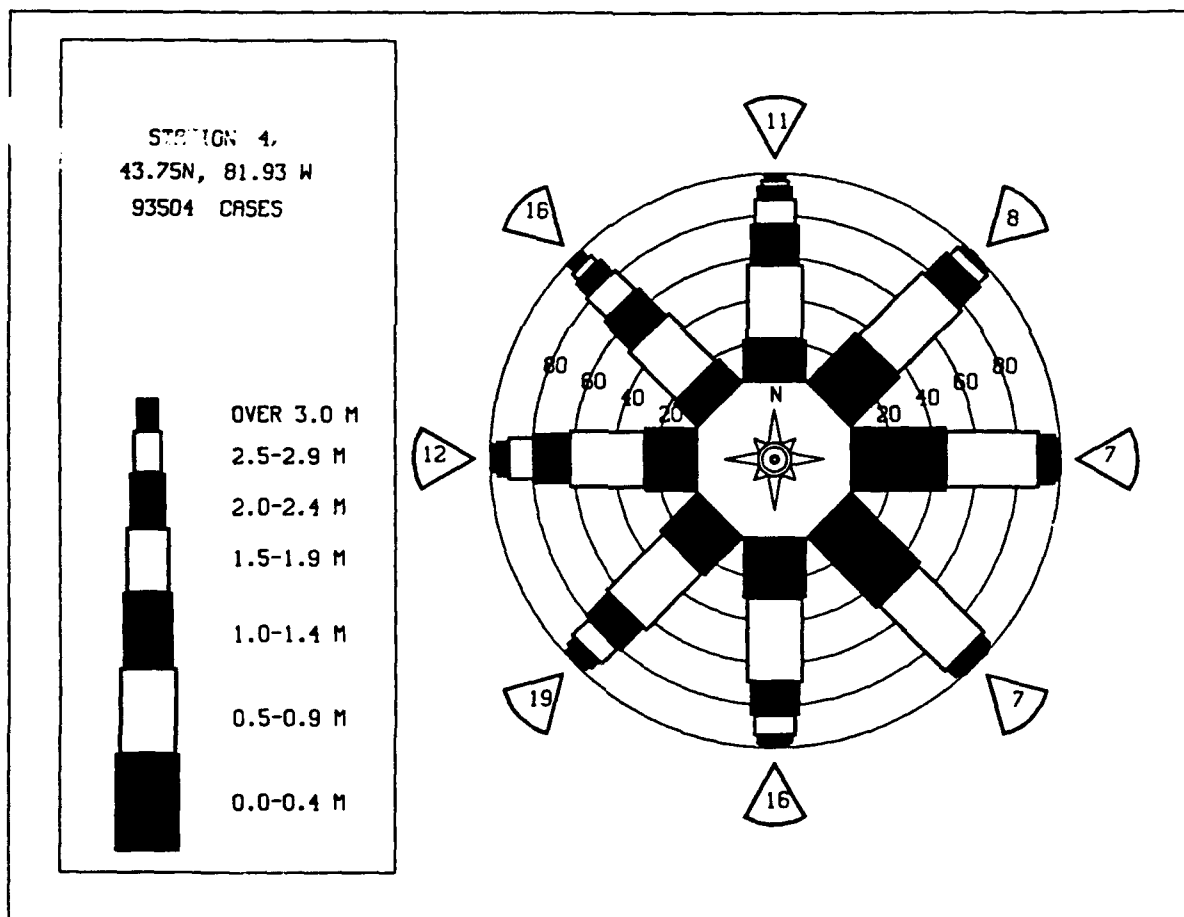
MEAN HS(M) = 1.3 LARGEST HS(M)= 7.3 MEAN TP(SEC)= 5.2 NO. OF CASES= 8897.

STATION H47 43.75N 81.93W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	244	388	312	119	16						1079
0.50-0.99		456	1074	566	217	24					2337
1.00-1.49			163	491	510	116	13				1293
1.50-1.99			4	260	430	232	47				973
2.00-2.49				4	191	190	88	2			475
2.50-2.99					27	158	101	8			294
3.00-3.49						50	65	13			128
3.50-3.99						4	65	7	3		79
4.00-4.49							37	5	4		46
4.50-4.99							4	10	2	1	17
5.00-5.49								5			5
5.50-5.99								3	4		7
6.00-6.49									3		3
6.50-6.99										1	1
7.00+											0
TOTAL	244	844	1553	1440	1391	774	420	53	16	2	

MEAN HS(M) = 1.2 LARGEST HS(M)= 6.6 MEAN TP(SEC)= 5.1 NO. OF CASES= 6319.

STATION H47 43.75N 81.93W FOR ALL DIRECTIONS										
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-11.0+ LONGER
0.00-0.49	680	1199	616	235	30	1				2761
0.50-0.99		1191	1590	761	277	37				3859
1.00-1.49			323	752	327	101	16			1319
1.50-1.99			17	538	311	105	27			998
2.00-2.49				14	317	78	36			446
2.50-2.99				1	93	87	36			220
3.00-3.49					1	61	30			91
3.50-3.99						13	18			44
4.00-4.49							4			19
4.50-4.99							1			8
5.00-5.49							1			4
5.50-5.99							1			2
6.00-6.49										0
6.50-6.99										0
7.00+										0
TOTAL	680	2390	2546	2301	1356	483	196	18	1	0
MEAN HS(M)= 0.9 LARGEST HS(M)= 7.3 MEAN TP(SEC)= 4.4 TOTAL CASES= 93504.										



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H47 (43.75N 81.93W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
YEAR													
1956	1.0	0.9	1.0	1.0	1.1	0.7	0.6	0.6	0.8	1.1	1.2	1.1	0.9
1957	1.3	1.0	0.9	1.0	0.9	0.8	0.7	0.6	0.8	1.0	1.1	1.1	1.0
1958	1.3	1.6	0.7	1.0	1.0	1.2	0.7	1.0	1.2	1.3	1.5	1.4	1.1
1959	1.6	1.4	1.3	1.3	1.3	1.0	1.0	0.9	1.2	1.3	1.4	1.4	1.1
1960	1.3	1.6	1.1	1.0	0.9	0.7	0.7	0.7	0.7	0.9	1.1	1.1	1.1
1961	1.3	1.1	1.3	0.9	0.9	0.9	0.6	0.7	0.9	1.1	1.2	1.2	1.1
1962	1.5	1.0	0.7	1.2	0.8	0.7	0.8	0.6	1.0	0.9	1.1	1.1	1.1
1963	1.2	1.2	1.0	1.2	0.8	0.6	0.8	0.7	0.7	0.9	1.1	1.1	1.1
1964	1.4	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1965	1.4	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1
1966	1.4	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1
1967	1.4	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1
1968	1.4	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1
1969	1.4	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1
1970	0.9	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1971	1.2	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1972	1.2	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1973	1.3	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1974	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
1975	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1976	1.2	1.1	1.1	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1977	1.0	1.1	1.0	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1978	1.1	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1979	1.1	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1980	1.0	0.7	1.0	0.7	0.6	0.7	0.4	0.4	0.7	0.9	1.1	1.1	1.1
1981	0.9	1.2	1.3	1.2	0.8	0.7	0.6	0.5	0.7	0.8	0.9	1.0	0.9
1982	1.3	0.8	0.8	1.2	0.6	0.6	0.6	0.7	0.7	0.8	1.0	1.1	0.9
1983	1.0	0.8	0.8	0.8	0.8	0.5	0.6	0.4	0.7	0.6	1.1	1.1	0.8
1984	1.0	0.9	1.2	0.9	0.9	0.7	0.5	0.4	0.6	0.6	1.1	1.1	0.8
1985	1.4	0.9	1.1	0.9	0.7	0.7	0.9	0.4	0.6	0.7	0.9	0.8	0.8
1986	1.1	0.7	1.0	0.8	0.8	0.7	0.5	0.6	0.6	0.6	0.9	0.8	0.8
1987	0.9	0.7	0.8	0.9	0.7	0.6	0.6	0.6	0.5	0.8	1.0	1.1	0.8
MEAN	1.2	1.1	1.0	1.0	0.8	0.7	0.6	0.6	0.8	0.9	1.1	1.1	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H47 (43.75N 81.93W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
YEAR													
1956	3.6	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1957	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1958	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1959	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1960	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1961	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1962	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1963	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1964	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1965	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1966	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1967	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1968	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1969	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1970	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1971	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1972	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1973	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1974	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1975	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1976	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1977	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1978	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1979	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1980	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1981	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1982	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1983	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1984	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1985	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1986	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	
1987	5.7	5.0	5.0	3.4	4.1	3.6	2.2	1.8	2.8	3.4	4.3	3.3	

32 YR. STATISTICS FOR WIS STATION H47

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	0.9
MEAN PEAK WAVE PERIOD (SECONDS)	4.4
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	202.5
STANDARD DEVIATION OF WAVE HS (METERS)	0.7
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.4
LARGEST WAVE HS (METERS)	7.3
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	10.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	311.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	63040418

STATION H48 43.62N 81.93W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	288	426	403	147	23						1287
0.50-0.99		449	938	553	251	34	1				2226
1.00-1.49			172	380	427	167	16				1162
1.50-1.99			2	226	288	171	54	1			742
2.00-2.49				10	167	131	89	2	1		400
2.50-2.99				1	31	101	78	4			215
3.00-3.49					3	47	37	16			103
3.50-3.99						7	42	7	1		57
4.00-4.49							28	5			33
4.50-4.99							6	6	2		14
5.00-5.49							1	9	1		11
5.50-5.99								1			1
6.00-6.49								1			1
6.50-6.99									2		2
7.00+									1		1
TOTAL	288	875	1515	1317	1190	658	352	53	8	0	5869

MEAN HS(M) = 1.1 LARGEST HS(M)= 7.6 MEAN TP(SEC)= 5.0 NO. OF CASES= 5869.

STATION H48 43.62N 81.93W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	278	458	336	143	18	1					1234
0.50-0.99		494	556	456	274	26	1				1807
1.00-1.49			148	144	367	112	14				785
1.50-1.99			16	99	100	126	32				373
2.00-2.49				5	24	41	25				95
2.50-2.99					10	23	24	1			58
3.00-3.49					1	2	7	1			11
3.50-3.99						1	9	1			11
4.00-4.49							2				2
4.50-4.99							1				1
5.00-5.49								1			1
5.50-5.99											0
6.00-6.49								1			1
6.50-6.99											0
7.00+											0
TOTAL	278	952	1056	847	794	332	115	5	0	0	4109

MEAN HS(M) = 0.8 LARGEST HS(M)= 6.3 MEAN TP(SEC)= 4.6 NO. OF CASES= 4109.

STATION H48 43.62N 81.93W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	350	487	458	205	22	1					1523
0.50-0.99		750	398	500	262	26	4				1940
1.00-1.49			171	57	254	102	5				589
1.50-1.99			39	84	38	68	6	1			236
2.00-2.49				37	9	27	13				77
2.50-2.99				7	1	3	16				35
3.00-3.49							5				6
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	350	1237	1066	890	586	227	49	1	0	0	4134

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.3 MEAN TP(SEC)= 4.2 NO. OF CASES= 4134.

STATION H48 43.62N 81.93W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	378	499	373	155	26	2					1433
0.50-0.99		720	223	337	229	20					1529
1.00-1.49			148	14	99	56	1				318
1.50-1.99			27	40	11	17	5				100
2.00-2.49				11	1	4	7				23
2.50-2.99							1				1
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	378	1219	771	557	366	99	14	0	0	0	3195

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.6 MEAN TP(SEC)= 3.9 NO. OF CASES= 3195.

STATION H48 43.62N 81.93W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	472	689	370	174	25	2	1	.	.	.	1732
0.50-0.99	.	881	167	274	204	12	1	.	.	.	1539
1.00-1.49	.	.	165	11	58	26	2	.	.	.	269
1.50-1.99	.	.	27	17	2	7	6	.	.	.	59
2.00-2.49	.	.	.	9	1	.	.	.	.	.	10
2.50-2.99	.	.	.	2	1	.	.	.	.	.	4
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	472	1570	729	487	292	47	9	0	0	0	3383.

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.8 MEAN TP(SEC)= 3.7 NO. OF CASES= 3383.

STATION H48 43.62N 81.93W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	578	594	290	162	24	.	.	.	.	.	1648
0.50-0.99	.	1002	353	181	102	23	.	.	.	.	1861
1.00-1.49	.	.	231	4	17	18	3	.	.	.	273
1.50-1.99	.	.	28	49	1	1	1	.	.	.	79
2.00-2.49	.	.	.	7	.	1	.	.	.	.	8
2.50-2.99	0
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	578	1596	902	403	144	42	4	0	0	0	3439.

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.3 MEAN TP(SEC)= 3.5 NO. OF CASES= 3439.

STATION H48 43.62N 81.93W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	667	614	418	174	37	2	.	.	.	.	1912
0.50-0.99	.	1045	346	163	85	13	2	.	.	.	1654
1.00-1.49	.	.	179	3	8	8	2	.	.	.	200
1.50-1.99	.	.	5	42	1	1	.	.	.	.	49
2.00-2.49	.	.	.	7	2	.	.	.	.	.	9
2.50-2.99	1	.	.	.	.	.	1
3.00-3.49	2	.	.	.	.	.	2
3.50-3.99	0
4.00-4.49	0
4.50-4.99	1	.	.	.	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	667	1659	948	389	136	25	4	0	0	0	3589.

MEAN HS(M) = 0.5 LARGEST HS(M)= 4.7 MEAN TP(SEC)= 3.4 NO. OF CASES= 3589.

STATION H48 43.62N 81.93W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	613	647	332	175	32	3	1	.	.	.	1803
0.50-0.99	.	1165	464	128	91	17	3	.	.	.	1866
1.00-1.49	.	.	151	22	6	7	1	.	.	.	189
1.50-1.99	.	.	1	45	3	.	.	.	.	.	49
2.00-2.49	.	.	.	5	8	.	.	.	.	.	13
2.50-2.99	1	1	.	.	.	.	2
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	613	1812	948	375	145	29	5	0	0	0	3681.

MEAN HS(M) = 0.5 LARGEST HS(M)= 3.3 MEAN TP(SEC)= 3.4 NO. OF CASES= 3681.

STATION H48 43.62N 81.93W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	671	1069	380	191	28	3					2342
0.50-0.99		1083	1441	143	91	22	2				2782
1.00-1.49			663	397	12	8	4				1084
1.50-1.99			3	418	16		1				438
2.00-2.49				7	157						164
2.50-2.99					29	1					30
3.00-3.49					2	12					14
3.50-3.99						3					3
4.00-4.49						2					2
4.50-4.99							1				1
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	671	2152	2487	1156	335	51	8	0	0	0	6426.

MEAN HS(M) = 0.7 LARGEST HS(M)= 4.6 MEAN TP(SEC)= 3.8 NO. OF CASES= 6426.

STATION H48 43.62N 81.93W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	687	1865	592	194	22	5					3365
0.50-0.99		1223	3583	940	114	18	2				5880
1.00-1.49			1003	1865	175	16	1				3060
1.50-1.99			2	1363	432	22	2				1821
2.00-2.49				17	594	36	2				649
2.50-2.99					155	70	4				229
3.00-3.49					1	57	2				60
3.50-3.99						12	7				19
4.00-4.49						1	8				9
4.50-4.99											0
5.00-5.49							1				0
5.50-5.99											1
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	687	3088	5180	4379	1493	237	29	0	0	0	14124.

MEAN HS(M) = 0.9 LARGEST HS(M)= 5.5 MEAN TP(SEC)= 4.2 NO. OF CASES= 14124.

STATION H48 43.62N 81.93W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	634	1288	423	228	28	1					2602
0.50-0.99		783	1901	574	134	34	4				3430
1.00-1.49			252	966	82	12	6				1318
1.50-1.99			3	675	294	6	3				984
2.00-2.49				4	402	8	2				416
2.50-2.99					122	64	1				186
3.00-3.49					2	77	1				80
3.50-3.99						33	6				39
4.00-4.49							17				17
4.50-4.99							5				5
5.00-5.49							9				9
5.50-5.99							2				2
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	634	2071	2579	2447	1044	235	57	1	0	0	8512.

MEAN HS(M) = 0.9 LARGEST HS(M)= 5.5 MEAN TP(SEC)= 4.2 NO. OF CASES= 8512.

STATION H48 43.62N 81.93W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	436	765	299	164	32	2					1698
0.50-0.99		517	1127	344	143	40	9				2180
1.00-1.49			187	671	34	24	11				927
1.50-1.99			1	511	175	4	1	1			893
2.00-2.49				2	301	1	1				305
2.50-2.99					113	41					154
3.00-3.49						43					43
3.50-3.99						18	4				22
4.00-4.49						1	9				10
4.50-4.99							1				1
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	436	1282	1614	1692	798	173	36	2	0	0	5653.

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.9 MEAN TP(SEC)= 4.3 NO. OF CASES= 5653.

STATION H48 43.62N 81.93W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.6 MEAN TP(SEC)= 4.4 NO. OF CASES= 5830.

STATION H48 43.62N 81.93W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 1.0 LARGEST HS(M)= 4.9 MEAN TP(SEC)= 4.6 NO. OF CASES= 6460.

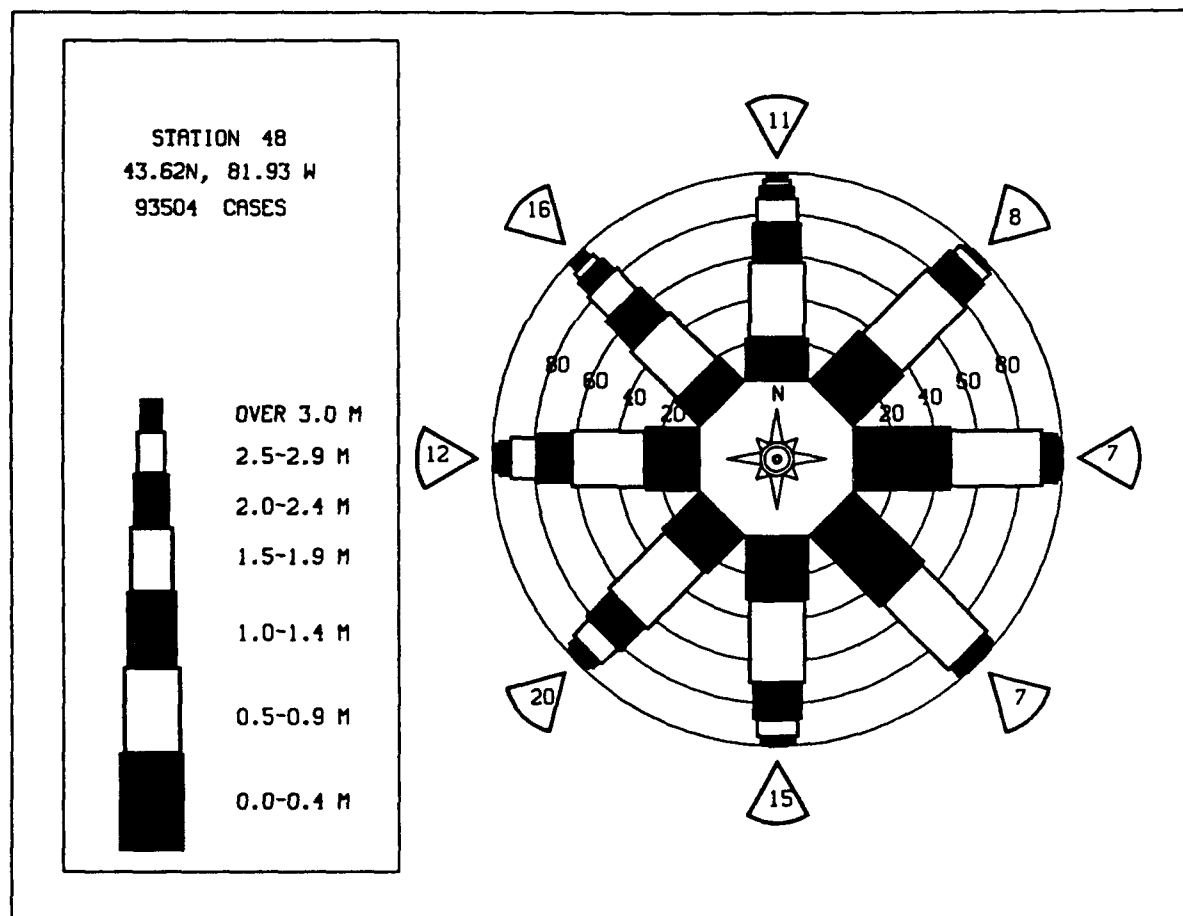
STATION H48 43.62N 81.93W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN BS(M) = 1.3 LARGEST BS(M)= 7.2 MEAN TP(SEC)= 5.3 NO. OF CASES= 8642.

STATION H48 43.62N 81.93W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 1.2 LARGEST HS(M)= 6.6 MEAN TP(SEC)= 5.1 NO. OF CASES= 6458.

STATION H48 43.62N 81.93W FOR ALL DIRECTIONS										
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	742	1166	608	274	41	2	.	.	.	2833
0.50-0.99	.	1216	1606	666	306	48	4	.	.	3846
1.00-1.49	.	.	423	693	288	115	20	.	.	1539
1.50-1.99	.	.	17	548	282	97	33	1	.	978
2.00-2.49	.	.	.	15	291	70	38	2	.	416
2.50-2.99	.	.	.	1	82	80	34	2	.	199
3.00-3.49	1	56	23	4	.	84
3.50-3.99	10	31	2	.	43
4.00-4.49	17	2	.	19
4.50-4.99	4	.	.	7
5.00-5.49	1	3	.	4
5.50-5.99	1	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	742	2382	2654	2197	1291	478	205	19	1	0
MEAN HS(M)= 0.9	LARGEST HS(M)= 7.6		MEAN TP(SEC)= 4.3		TOTAL CASES= 93504.					



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H48 (43.62N 81.93W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.9	0.9	1.0	1.0	1.0	0.7	0.6	0.6	0.8	1.0	1.2	1.1	0.9
1957	1.1	1.0	0.8	1.0	0.9	0.8	0.6	0.6	0.8	1.0	1.5	1.4	1.0
1958	1.1	1.6	0.7	1.0	1.0	1.1	0.7	1.0	1.2	1.2	1.5	1.3	1.1
1959	1.1	1.4	1.3	1.3	1.2	1.0	0.9	0.9	1.2	1.2	1.4	1.3	1.2
1960	1.3	1.6	1.1	1.0	0.9	0.7	0.7	0.6	0.6	0.9	1.5	1.7	1.0
1961	1.3	1.0	1.3	0.9	0.9	0.9	0.6	0.7	0.8	1.1	1.1	1.1	1.0
1962	1.4	1.0	0.7	1.1	0.8	0.6	0.8	0.6	1.0	0.7	1.0	1.3	0.9
1963	1.1	1.1	1.0	1.2	0.8	0.5	0.7	0.7	0.7	0.8	1.2	1.0	0.8
1964	1.3	1.2	1.4	1.3	1.2	0.8	0.9	1.0	1.0	1.1	1.1	1.1	1.1
1965	1.4	1.5	1.0	0.8	0.8	0.8	0.7	0.8	0.9	1.1	1.2	1.1	1.0
1966	1.3	1.0	1.2	1.1	1.0	0.8	0.7	0.8	0.8	1.1	1.1	1.0	1.0
1967	1.1	1.4	0.8	1.1	0.9	0.5	0.8	0.8	0.8	1.1	1.1	1.1	1.1
1968	1.3	1.7	1.0	1.1	0.9	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
1969	1.3	1.0	1.0	1.1	0.9	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
1970	0.8	1.1	1.1	1.1	0.9	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
1971	1.1	1.7	1.4	1.3	0.9	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
1972	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
1973	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
1974	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
1975	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
1976	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
1977	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
1978	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
1979	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
1980	1.0	0.7	1.0	0.7	0.6	0.7	0.4	0.4	0.6	0.9	1.0	1.1	1.0
1981	0.9	1.2	1.3	1.1	0.8	0.7	0.6	0.5	0.7	0.8	0.9	1.0	0.9
1982	1.4	0.8	0.8	1.2	0.6	0.6	0.6	0.7	0.7	0.7	1.0	1.1	0.8
1983	1.0	0.8	1.0	0.8	0.8	0.5	0.6	0.4	0.7	0.6	1.3	1.2	0.8
1984	1.0	0.9	1.2	0.9	0.9	0.6	0.5	0.4	0.6	0.6	1.0	1.0	0.8
1985	1.4	0.9	1.1	0.9	0.7	0.6	0.8	0.4	0.6	0.7	0.8	1.1	0.8
1986	1.1	0.7	1.0	0.8	0.7	0.7	0.5	0.6	0.6	0.6	0.9	0.8	0.7
1987	0.9	0.7	0.8	0.9	0.7	0.6	0.6	0.6	0.5	0.8	1.0	1.1	0.7
MEAN	1.2	1.1	1.0	1.0	0.8	0.7	0.6	0.6	0.7	0.9	1.1	1.1	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H48 (43.62N 81.93W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.7	5.1	4.7	3.1	3.8	3.6	2.1	1.7	2.7	2.8	4.1	3.3	
1957	3.7	5.1	4.7	3.1	3.8	3.6	2.1	1.7	2.7	2.8	4.1	3.3	
1958	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1959	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1960	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1961	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1962	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1963	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1964	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1965	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1966	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1967	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1968	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1969	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1970	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1971	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1972	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1973	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1974	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1975	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1976	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1977	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1978	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1979	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1980	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1981	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1982	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1983	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1984	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1985	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1986	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
1987	4.4	6.6	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	

32 YR. STATISTICS FOR WIS STATION H48

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.9
MEAN PEAK WAVE PERIOD	(SECONDS)	4.3
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	202.5
STANDARD DEVIATION OF WAVE HS	(METERS)	0.7
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.4
LARGEST WAVE HS	(METERS)	7.6
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	10.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	358.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		84033000

STATION H 839 43.47N 81.83W		AZIMUTH(DEGREES) = 67.5									
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION											
HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	410	474	372	175	31	1	.	.	.	.	1463
0.50-0.99	.	703	241	279	227	22	.	.	.	.	1472
1.00-1.49	.	.	143	12	91	43	4	.	.	.	293
1.50-1.99	.	.	29	41	6	12	5	.	.	.	93
2.00-2.49	.	.	.	12	.	12	9	.	.	.	23
2.50-2.99	1	.	.	.	1
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	410	1177	785	519	355	80	19	0	0	0	3140.
MEAN HS(M) = 0.6	LARGEST HS(M)=		2.5	MEAN TP(SEC)=		3.9	NO. OF CASES=		3140.		

STATION H49 43.47N 81.93W AZIMUTH(DEGREES) = 90.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	513	657	385	198	38	3					1794
0.50-0.99		860	176	245	212	24	1				1518
1.00-1.49			162	12	51	24	3				252
1.50-1.99			22	18	4	6	6				56
2.00-2.49				7	1	1	1				9
2.50-2.99											3
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	513	1517	745	482	306	58	11	0	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.8 MEAN TP(SEC)= 3.7 NO. OF CASES= 3407.

STATION H49 43.47N 81.93W AZIMUTH(DEGREES) = 112.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	579	599	317	158	36	1					1690
0.50-0.99		994	352	167	113	27	1				1654
1.00-1.49			212	4	17	13	3				251
1.50-1.99			22	48	1	1	1				72
2.00-2.49				5	1						7
2.50-2.99					1						1
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	579	1593	903	382	169	42	7	0	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.6 MEAN TP(SEC)= 3.5 NO. OF CASES= 3446.

STATION H49 43.47N 81.93W AZIMUTH(DEGREES) = 135.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	718	588	406	190	43	3					1948
0.50-0.99		1124	394	145	89	14	2				1768
1.00-1.49			176	4	8	4	2				194
1.50-1.99			3	39	1	1					44
2.00-2.49				5	2						7
2.50-2.99					2						2
3.00-3.49											0
3.50-3.99											0
4.00-4.49						1					1
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	718	1712	979	383	145	23	4	0	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 4.0 MEAN TP(SEC)= 3.4 NO. OF CASES= 3715.

STATION H49 43.47N 81.93W AZIMUTH(DEGREES) = 157.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	676	636	368	216	42	2	1				1941
0.50-0.99		1182	456	127	93	20	2				1880
1.00-1.49			182	11	5	6	4				208
1.50-1.99			2	63	4						65
2.00-2.49				4	4						8
2.50-2.99					4						4
3.00-3.49					2						2
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	676	1818	1008	421	150	28	7	0	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 3.1 MEAN TP(SEC)= 3.4 NO. OF CASES= 3850.

STATION H49 43.47N 81.93W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-11.9	
0.00-0.49	779	911	368	219	45	5					2327
0.50-0.99		1472	580	139	112	35	2				2340
1.00-1.49			669	108	7	7	4				795
1.50-1.99			1	278			2				281
2.00-2.49				19	32						51
2.50-2.99					14						14
3.00-3.49					4	1					5
3.50-3.99						1					1
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	779	2383	1618	763	214	49	8	0	0	0	5445

STATION H49 43.47N 81.93W AZIMUTH(DEGREES) -202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	780	1621	592	227	37	2					3269
0.50-0.99		2048	2732	760	122	28	3				5693
1.00-1.49			1588	1168	98	10	3				2867
1.50-1.99			10	1114	372	5					1501
2.00-2.49				79	336	24					439
2.50-2.99					85	41					128
3.00-3.49					1	32					34
3.50-3.99						8					14
4.00-4.49							2				2
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	780	3669	4922	3348	1051	150	17	0	0	0	
MEAN HS(M) = 0.9	LARGEST HS(M)= 4.3		MEAN TP(SEC)= 4.1		NO. OF CASES= 13054.						

STATION H49 43.47N 81.93W AZIMUTH(DEGREES) -225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	713	1399	467	244	42	3					2868
0.50-0.99		849	2255	684	151	39	6	.	.	.	3984
1.00-1.49	.	.	386	1076	69	20	8	.	.	.	1569
1.50-1.99	.	.	.	704	355	6	2	1	.	.	1068
2.00-2.49	.	.	.	3	423	7	2	1	.	.	436
2.50-2.99	.	.	.		109	66	.	.	.	.	175
3.00-3.49	.	.	.		3	71	1	.	.	.	75
3.50-3.99	.	.	.			24	11	.	.	.	35
4.00-4.49	.	.	.				19	.	.	.	19
4.50-4.99	.	.	.				.	.	.	.	7
5.00-5.49	.	.	.				.	.	.	.	5
5.50-5.99	.	.	.				2	1	.	.	3
6.00-6.49	.	.	.				.	.	.	.	0
6.50-6.99	.	.	.				.	.	.	.	0
7.00+	.	.	.				.	.	.	.	0
TOTAL	713	2248	3118	2711	1152	236	63	3	0	0	
MEAN HS(M) = 0.9	LARGEST HS(M)= 5.8		MEAN TP(SEC)= 4.2		NO. OF CASES= 9594.						

STATION H49 43.47N 81.93W AZIMUTH(DEGREES) -247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	464	840	310	221	39	8					1882
0.50-0.99	.	530	1158	312	157	48	11	.	.	.	2216
1.00-1.49	.	.	212	629	26	22	14	.	.	.	903
1.50-1.99	.	.	.	463	164	3	5	.	.	.	635
2.00-2.49	.	.	.	3	268		2	.	.	.	273
2.50-2.99	71	41	.	.	.	.	112
3.00-3.49	47	.	.	.	.	47
3.50-3.99	14	4	.	.	.	18
4.00-4.49	1	4	.	.	.	5
4.50-4.99	1	.	.	.	2
5.00-5.49	2	.	.	.	2
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	464	1370	1680	1628	725	184	43	0	0	0	
MEAN HS(M) = 0.9	LARGEST HS(M)=		5.3	MEAN TP(SEC)=		4.3	NO. OF CASES=		5711.		

STATION H49 43.47N 81.93W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.3 MEAN TP(SEC)= 4.4 NO. OF CASES= 6150.

STATION H49 43.47N 81.93W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.3 MEAN TP(SEC)= 4.6 NO. OF CASES= 6631.

STATION H49 43.47N 81.93W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 1.3 LARGEST HS(M)= 7.4 MEAN TP(SEC)= 5.2 NO. OF CASES= 8372.

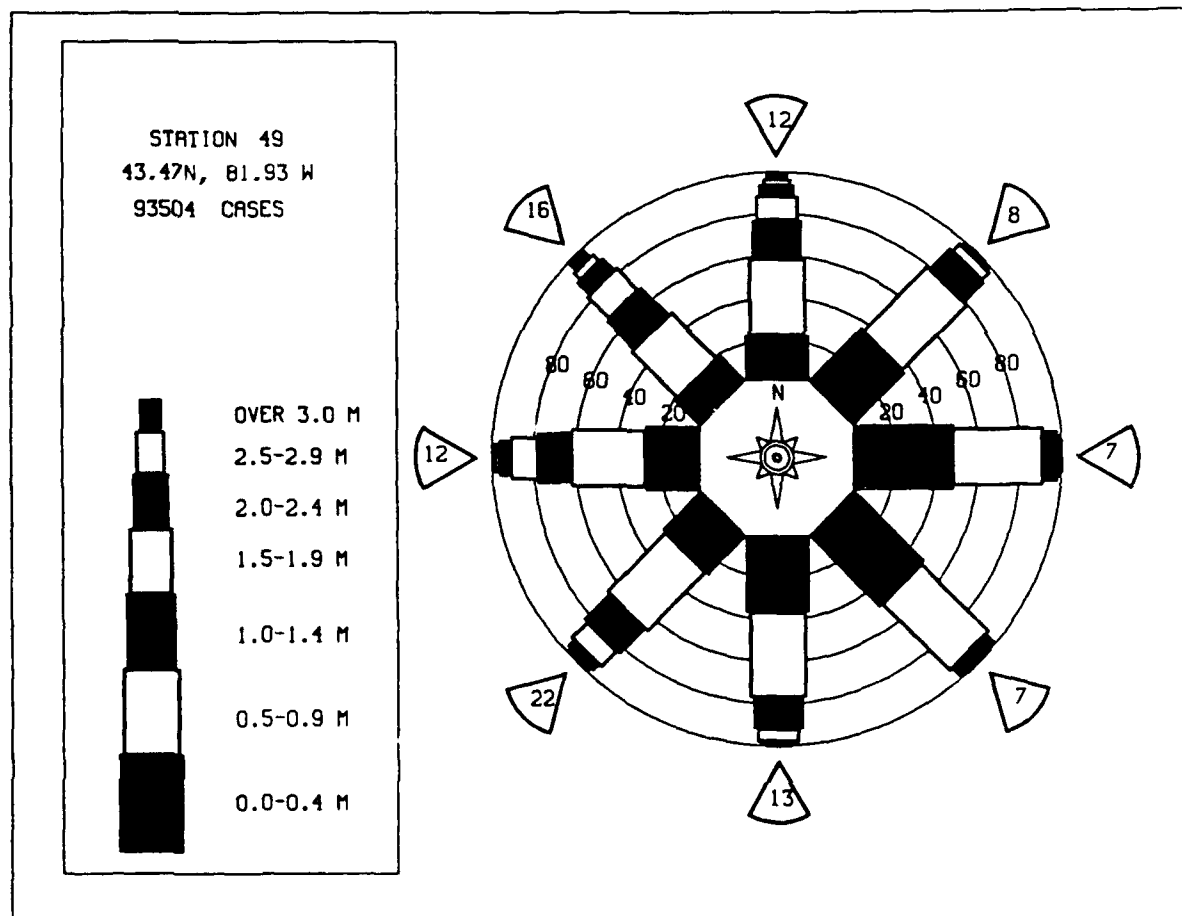
STATION H49 43.47N 81.93W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

MEAN HS(M) = 1.2 LARGEST HS(M)= 6.6 MEAN TP(SEC)= 5.1 NO. OF CASES= 6596

STATION H49 43.47N 81.93W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	812	1145	607	303	57	4	6	.	.	.	2928
0.50-0.99	.	1372	1499	605	317	61	25	.	.	.	3860
1.00-1.49	.	.	513	613	245	116	32	1	.	.	1512
1.50-1.99	.	.	17	520	282	84	35	2	.	.	936
2.00-2.49	.	.	.	22	263	64	33	2	.	.	386
2.50-2.99	68	82	33	4	.	.	185
3.00-3.49	2	55	20	4	.	.	81
3.50-3.99	10	34	2	.	.	46
4.00-4.49	18	2	.	.	20
4.50-4.99	4	5	.	.	9
5.00-5.49	1	3	.	.	4
5.50-5.99	1	1	.	2
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	812	2517	2636	2063	1234	476	208	22	1	0	

MEAN HS(M)= 0.9 LARGEST HS(M)= 8.0 MEAN TP(SEC)= 4.3 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H49 (43.47N 81.93W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.9	0.9	0.9	0.9	1.0	0.7	0.5	0.6	0.7	0.9	1.1	1.1	0.9
1957	1.2	1.0	0.8	0.9	0.8	0.7	0.6	0.6	0.8	0.9	1.1	1.4	0.9
1958	1.2	1.6	0.7	0.9	1.0	1.1	0.7	0.9	1.1	1.2	1.3	1.3	1.1
1959	1.3	1.3	1.2	1.3	1.2	1.0	0.9	0.8	1.1	1.2	1.3	1.3	1.2
1960	1.2	1.6	1.1	1.0	0.8	0.7	0.7	0.6	0.9	1.1	1.3	1.6	1.0
1961	1.2	1.0	1.2	0.9	0.9	0.9	0.6	0.6	0.8	1.0	1.1	1.1	0.9
1962	1.3	1.0	0.7	1.1	0.8	0.6	0.7	0.6	1.0	0.7	0.9	1.2	0.9
1963	1.1	1.1	1.0	1.1	0.7	0.5	0.7	0.7	0.8	1.1	0.9	1.1	0.9
1964	1.3	1.2	1.3	1.2	1.2	0.9	0.6	0.9	0.9	1.0	1.2	1.1	1.1
1965	1.3	1.4	0.9	0.8	0.8	0.7	0.6	0.7	0.8	1.2	1.1	1.1	1.0
1966	1.3	1.0	1.1	1.0	1.0	0.6	0.6	0.6	0.8	1.4	1.1	1.1	0.9
1967	1.3	1.4	0.8	1.1	0.9	0.7	0.7	0.8	1.1	1.1	1.1	1.1	0.9
1968	1.3	1.6	1.0	1.6	1.0	0.9	0.9	0.8	0.8	1.1	1.5	1.8	1.3
1969	1.4	1.1	1.1	1.1	0.8	0.7	0.5	0.5	0.8	1.2	1.1	1.1	1.0
1970	0.9	1.1	0.8	1.1	0.9	0.7	0.6	0.5	0.8	1.1	1.1	1.1	0.9
1971	1.7	1.8	0.8	0.8	0.9	0.6	0.5	0.5	0.6	1.1	1.1	1.0	1.0
1972	1.2	1.1	1.5	0.7	0.6	0.9	0.6	0.6	0.7	0.9	0.8	1.0	0.8
1973	1.3	0.8	0.8	0.9	0.7	0.5	0.4	0.6	0.7	1.1	0.9	0.8	0.8
1974	0.8	0.9	1.0	0.8	0.6	0.5	0.5	0.4	0.8	0.8	0.8	0.8	0.7
1975	1.0	0.8	0.8	1.0	0.4	0.5	0.4	0.4	0.6	0.8	0.9	1.0	0.7
1976	1.1	1.1	1.2	0.9	0.8	0.5	0.6	0.5	0.7	0.8	1.0	1.0	0.8
1977	1.0	0.9	0.9	0.7	0.6	0.6	0.5	0.5	0.7	0.9	1.0	1.0	0.7
1978	1.1	0.6	0.6	0.8	0.6	0.7	0.6	0.5	0.5	0.8	0.8	1.1	0.7
1979	1.1	0.9	0.8	0.8	0.7	0.7	0.4	0.6	0.6	0.9	0.9	1.2	0.8
1980	1.0	0.7	1.0	0.7	0.6	0.7	0.4	0.4	0.6	0.9	1.0	1.0	0.8
1981	0.9	1.2	1.3	1.1	0.8	0.6	0.6	0.4	0.7	0.8	0.9	1.0	0.9
1982	1.3	0.8	0.8	1.1	0.8	0.6	0.5	0.7	0.6	0.7	0.9	1.0	0.8
1983	0.9	0.7	1.0	0.8	0.8	0.4	0.6	0.4	0.6	0.6	1.3	1.2	0.8
1984	0.9	0.9	1.2	0.9	0.9	0.6	0.5	0.4	0.6	0.5	1.0	1.0	0.8
1985	1.3	0.8	1.0	0.9	0.7	0.6	0.8	0.4	0.6	0.7	0.8	1.1	0.8
1986	1.1	0.7	1.0	0.8	0.7	0.7	0.5	0.6	0.5	0.6	0.9	0.8	0.7
1987	0.8	0.6	0.7	0.9	0.6	0.5	0.5	0.6	0.5	0.7	1.0	1.0	0.7
MEAN	1.2	1.1	1.0	1.0	0.8	0.7	0.6	0.6	0.7	0.9	1.1	1.1	

LARGEST HS(METERS) BY MONTH AND YEAR

WIS STATION H49 (43.47N 81.93W)

	MONTH												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.7	5.2	4.4	3.1	3.8	3.6	2.1	1.7	2.7	3.0	4.0	3.1	
1957	3.5	4.4	3.7	3.7	3.0	4.4	3.3	2.2	2.6	4.3	3.8	3.8	
1958	4.7	6.6	3.3	3.7	4.4	3.3	3.3	2.2	4.1	4.1	4.4	4.4	
1959	4.8	4.7	4.4	3.7	4.4	3.3	3.3	2.2	4.1	4.1	4.4	4.4	
1960	4.7	4.4	3.3	3.7	4.4	3.3	3.3	2.2	4.1	4.1	4.4	4.4	
1961	5.9	4.4	3.3	3.7	4.4	3.3	3.3	2.2	4.1	4.1	4.4	4.4	
1962	3.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1963	2.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1964	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1965	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1966	4.6	4.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1967	4.4	4.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1968	7.1	4.7	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1969	4.9	4.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1970	2.5	3.6	2.4	3.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
1971	7.4	3.8	4.9	5.6	3.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	
1972	3.7	4.9	3.4	2.1	1.8	4.0	2.0	2.3	2.8	3.4	2.6	2.7	
1973	4.9	3.3	3.6	2.6	2.5	1.7	1.5	1.8	1.9	3.3	3.3	3.3	
1974	2.9	4.1	3.8	2.3	2.2	1.8	1.2	1.3	2.9	2.5	2.8	2.3	
1975	3.2	3.4	2.6	6.0	1.3	2.1	1.7	1.4	1.7	2.0	3.3	3.3	
1976	3.2	3.8	3.6	3.3	2.4	2.7	2.3	1.9	2.5	2.7	2.6	2.7	
1977	3.6	2.4	2.6	2.6	3.7	1.8	2.0	1.9	1.8	1.7	3.8	2.8	
1978	6.2	1.9	2.2	2.8	2.4	3.1	2.0	1.9	1.2	2.8	3.1	3.5	
1979	3.5	2.7	3.9	5.3	2.2	2.0	1.4	2.8	2.2	2.8	3.1	3.8	
1980	3.5	3.7	4.6	3.1	1.7	3.4	1.4	1.3	3.0	3.0	4.1	5.1	
1981	3.5	3.6	5.9	3.7	3.4	1.5	3.1	1.4	2.1	2.7	4.7	3.6	
1982	4.7	2.1	1.9	4.6	2.3	2.4	1.5	2.7	3.0	3.7	3.3	4.6	
1983	2.2	2.7	4.3	2.3	3.6	1.5	1.8	1.3	3.8	1.9	7.2	3.4	
1984	4.0	4.4	8.0	5.4	3.9	2.1	1.3	1.3	1.9	2.0	5.2	2.7	
1985	4.3	2.6	3.0	2.1	2.1	2.1	2.5	1.1	1.7	2.4	2.2	4.4	
1986	2.8	2.3	4.6	2.6	3.7	2.1	2.2	2.6	2.0	3.8	2.4	2.0	
1987	3.7	4.7	3.2	3.6	2.2	1.8	1.9	2.0	2.0	1.9	3.5	2.6	

32 YR. STATISTICS FOR WIS STATION H49

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.9
MEAN PEAK WAVE PERIOD	(SECONDS)	4.3
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	202.5
STANDARD DEVIATION OF WAVE HS	(METERS)	0.7
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.4
LARGEST WAVE HS	(METERS)	8.0
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	359.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		84033000

STATION H50 43.33N 81.93W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	430	562	476	211	41						1720
0.50-0.99		686	1166	498	250	41	3				2644
1.00-1.49			356	520	356	124	16				1372
1.50-1.99			6	376	271	118	37				808
2.00-2.49				20	210	66	59				355
2.50-2.99					58	106	36	5			205
3.00-3.49					4	77	33	9			123
3.50-3.99						4	53	9	2		68
4.00-4.49							34	4	3		41
4.50-4.99							8	11	1		20
5.00-5.49							2	7	2		12
5.50-5.99							1	3	2		3
6.00-6.49									1		1
6.50-6.99									1	1	2
7.00+											
TOTAL	430	1248	2004	1625	1190	536	282	48	16	1	

MEAN HS(M) = 1.0 LARGEST HS(M)= 7.7 MEAN TP(SEC)= 4.7 NO. OF CASES= 6921.

STATION H50 43.33N 81.93W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	360	443	376	164	25	2					1370
0.50-0.99		658	632	351	242	32	4				1919
1.00-1.49			257	131	217	100	14				719
1.50-1.99			25	150	82	78	20	1			356
2.00-2.49				27	29	31	20				107
2.50-2.99				2	9	13	13				37
3.00-3.49					2	6	3	1			12
3.50-3.99						2	3				5
4.00-4.49							2	2			6
4.50-4.99							1	1			3
5.00-5.49											0
5.50-5.99											0
6.00-6.49									1		1
6.50-6.99											0
7.00+											
TOTAL	360	1101	1290	825	606	264	83	5	1	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 6.8 MEAN TP(SEC)= 4.3 NO. OF CASES= 4257.

STATION H50 43.33N 81.93W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	408	490	389	196	47	2	2				1534
0.50-0.99		751	399	322	257	26	3				1758
1.00-1.49			257	40	157	74	12				540
1.50-1.99			39	120	29	52	5				245
2.00-2.49				38	4	21	16				79
2.50-2.99				3	12	1	16				32
3.00-3.49					1		4				5
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											
TOTAL	408	1241	1084	719	507	176	58	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.4 MEAN TP(SEC)= 4.1 NO. OF CASES= 3936.

STATION H50 43.33N 81.93W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	416	478	375	182	36	2	1				1490
0.50-0.99		737	256	219	198	20	3				1432
1.00-1.49			172	13	75	38	3				300
1.50-1.99			23	45	5	13	3				91
2.00-2.49				9			3				17
2.50-2.99							2				2
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											
TOTAL	416	1215	826	468	314	76	17	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.6 MEAN TP(SEC)= 3.8 NO. OF CASES= 3127.

STATION H50 43.33N 81.93W AZIMUTH(DEGREES) = 90.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	559	622	381	187	34	2					1785
0.50-0.99		835	190	211	199	28	1				1464
1.00-1.49			157	10	45	22	6				240
1.50-1.99			21	20	5	5	3				54
2.00-2.49				6		2	1				9
2.50-2.99				1	1						2
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	559	1457	749	435	284	59	11	0	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.8 MEAN TP(SEC)= 3.6 NO. OF CASES= 3333.

STATION H50 43.33N 81.93W AZIMUTH(DEGREES) = 112.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	549	515	306	139	32	1					1542
0.50-0.99		957	315	140	100	24	2				1538
1.00-1.49			228	4	13	11					256
1.50-1.99			21	45	1						67
2.00-2.49				6							6
2.50-2.99				1	1						2
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	549	1472	870	335	147	36	2	0	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.6 MEAN TP(SEC)= 3.5 NO. OF CASES= 3198.

STATION H50 43.33N 81.93W AZIMUTH(DEGREES) = 135.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	842	531	450	202	52	5					2082
0.50-0.99		1223	404	118	84	14					1955
1.00-1.49			231	12	12	5	1				249
1.50-1.99			1	51	1		1				54
2.00-2.49				6	1						7
2.50-2.99					1						1
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	842	1754	1186	378	161	24	3	0	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.5 MEAN TP(SEC)= 3.4 NO. OF CASES= 4073.

STATION H50 43.33N 81.93W AZIMUTH(DEGREES) = 157.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	781	668	392	224	64	5	1				2135
0.50-0.99		1079	385	129	90	22	2				1707
1.00-1.49			161	3	3	2	4				170
1.50-1.99			7	41		1					49
2.00-2.49				4							4
2.50-2.99					2						2
3.00-3.49											0
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	781	1747	945	398	159	30	7	0	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.6 MEAN TP(SEC)= 3.4 NO. OF CASES= 3810.

STATION H50 43.33N 81.93W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERCENT OCCURRENCE(1960-71) BY HEIGHT PERIOD										TOTAL
	PEAK PERIOD(SECONDS)										
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	1036	957	518	306	84	9	1	.	.	.	2911
0.50-0.99	.	1391	538	180	127	27	3	.	.	.	1926
1.00-1.49	.	.	221	2	6	3	2	.	.	.	234
1.50-1.99	.	.	62	37	.	.	1	.	.	.	100
2.00-2.49	.	.	.	6	.	.	.	.	.	.	6
2.50-2.99	.	.	.	1	1	.	.	.	.	.	2
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1036	2348	999	532	218	39	7	0	0	0	4851.
MEAN HS(M) = 0.5	LARGEST HS(M)=		2.6		MEAN TP(SEC)=		3.4		NO. OF CASES=		4851.

STATION H50 43.33N 81.93W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	962	1742	581	289	71	9	.	.	.	.	3654
0.50-0.99	.	2996	1286	466	127	47	6	.	.	.	4928
1.00-1.49	.	.	784	473	36	10	4	.	.	.	1307
1.50-1.99	.	.	160	347	140	4	.	.	.	.	651
2.00-2.49	.	.	.	23	125	4	.	.	.	.	152
2.50-2.99	.	.	.	2	26	27	.	.	.	.	55
3.00-3.49	14	.	.	.	.	14
3.50-3.99	2	2	.	.	.	4
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00-7.99	0
TOTAL	962	4738	2811	1600	525	117	12	0	0	0	
MEAN HS(M) = 0.7	LARGEST HS(M)=		3.8	MEAN TP(SEC)=		3.7	NO. OF CASES=		10079.		

STATION H50 43.33N 81.93W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0 00-0.49	772	1495	671	320	66	6					3330
0 50-0.99	.	1164	2525	721	171	56	8	.	.	.	4645
1 00-1.49	.	.	667	927	93	14	10	.	.	.	1711
1 50-1.99	.	.	16	720	334	6	4	1	.	.	1081
2 00-2.49	.	.	.	16	382	14			.	.	412
2 50-2.99	90	50	1	.	.	.	141
3 00-3.49	2	54	1	.	.	.	37
3 50-3.99	14	10	.	.	.	24
4 00-4.49	1	20	.	.	.	21
4 50-4.99	2	.	.	.	5
5 00-5.49	3
5 50-5.99	3	.	.	3
6 00-6.49	0
6 50-6.99	0
7 00+	0
TOTAL	772	2659	3879	2704	1138	215	61	4	0	0	
MEAN HS (M) = 0.9	LARGEST HS (M) =	5.8	MEAN TP (SEC) =	4.2	NO. OF CASES =	10705.					

STATION H50 43.33N 81.93W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	484	910	319	221	73	13					2020
0.50-0.99		589	1349	340	191	65	11	1			2556
1.00-1.49			287	612	28	26	22	1			976
1.50-1.99			3	564	192	1	1				761
2.00-2.49				3	302	1		1			307
2.50-2.99					101	41					142
3.00-3.49						62	2				64
3.50-3.99						16	3				19
4.00-4.49							7				7
4.50-4.99											0
5.00-5.49							2	1			3
5.50-5.99								1			1
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	484	1509	1958	1740	887	225	48	5	0	0	
MEAN HS(M) = 0.9	LARGEST HS(M)=		5.5	MEAN TP(SEC)=		4.3	NO. OF CASES=		6425.		

STATION H50 43.33N 81.93W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	474	825	318	221	40	9	.	.	.	.	1887
0.50-0.99	.	594	1255	281	252	87	18	.	.	.	2487
1.00-1.49	.	.	494	634	77	72	44	4	.	.	1325
1.50-1.99	.	.	3	702	60	17	19	4	.	.	805
2.00-2.49	.	.	.	4	374	5	7	5	.	.	385
2.50-2.99	108	5	1	.	.	.	120
3.00-3.49	1	20	1	.	.	.	22
3.50-3.99	9	.	1	.	.	10
4.00-4.49	1	1	.	.	2
4.50-4.99	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	474	1419	2070	1842	912	220	92	15	0	0	
MEAN HS (M) = 0.9	LARGEST HS (M) = 4.6		MEAN TP (SEC) = 4.3		NO. OF CASES = 6600.						

STATION H50 43.33N 81.93W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	410	728	248	165	35	3	1	.	.	.	1590
0.50-0.99	.	596	1270	325	273	54	10	1	.	.	2529
1.00-1.49	.	.	592	684	173	158	60	1	.	.	1668
1.50-1.99	.	.	1	867	132	47	45	6	.	.	1098
2.00-2.49	.	.	.	22	398	17	24	9	2	.	472
2.50-2.99	137	38	31	2	1	.	209
3.00-3.49	6	55	12	4	1	.	78
3.50-3.99	17	6	5	1	.	31
4.00-4.49	2	5	1	2	.	14
4.50-4.99	3	1	1	.	5
5.00-5.49	4	.	4
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	410	1324	2111	2063	1154	391	197	36	12	0	
MEAN HS(M) = 1.1	LARGEST HS(M) = 5.4		MEAN TP(SEC) = 4.6		NO. OF CASES = 7217.						

STATION H50 43.33N 81.93W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	266	527	328	189	53	4	.	.	.	.	1367
0.50-0.99	.	491	1286	470	289	80	11	.	.	.	2627
1.00-1.49	.	1	291	770	399	224	59	2	.	.	1746
1.50-1.99	.	.	4	777	515	150	104	5	1	.	1556
2.00-2.49	.	.	.	19	698	74	77	4	1	.	873
2.50-2.99	205	228	74	8	1	.	516
3.00-3.49	1	180	87	11	1	.	280
3.50-3.99	51	89	10	.	.	150
4.00-4.49	2	41	24	2	.	69
4.50-4.99	4	10	4	.	25
5.00-5.49	6	2	6	1	15
5.50-5.99	2	2	3	.	5
6.00-6.49	1	3	1	2
6.50-6.99	2	1	.	3
7.00+	0
TOTAL	266	1019	1909	2225	2160	993	557	81	20	2	
MEAN HS (M) = 1.3	LARGEST HS (M) = 6.8		MEAN TP (SEC) = 5.2		NO. OF CASES = 8657.						

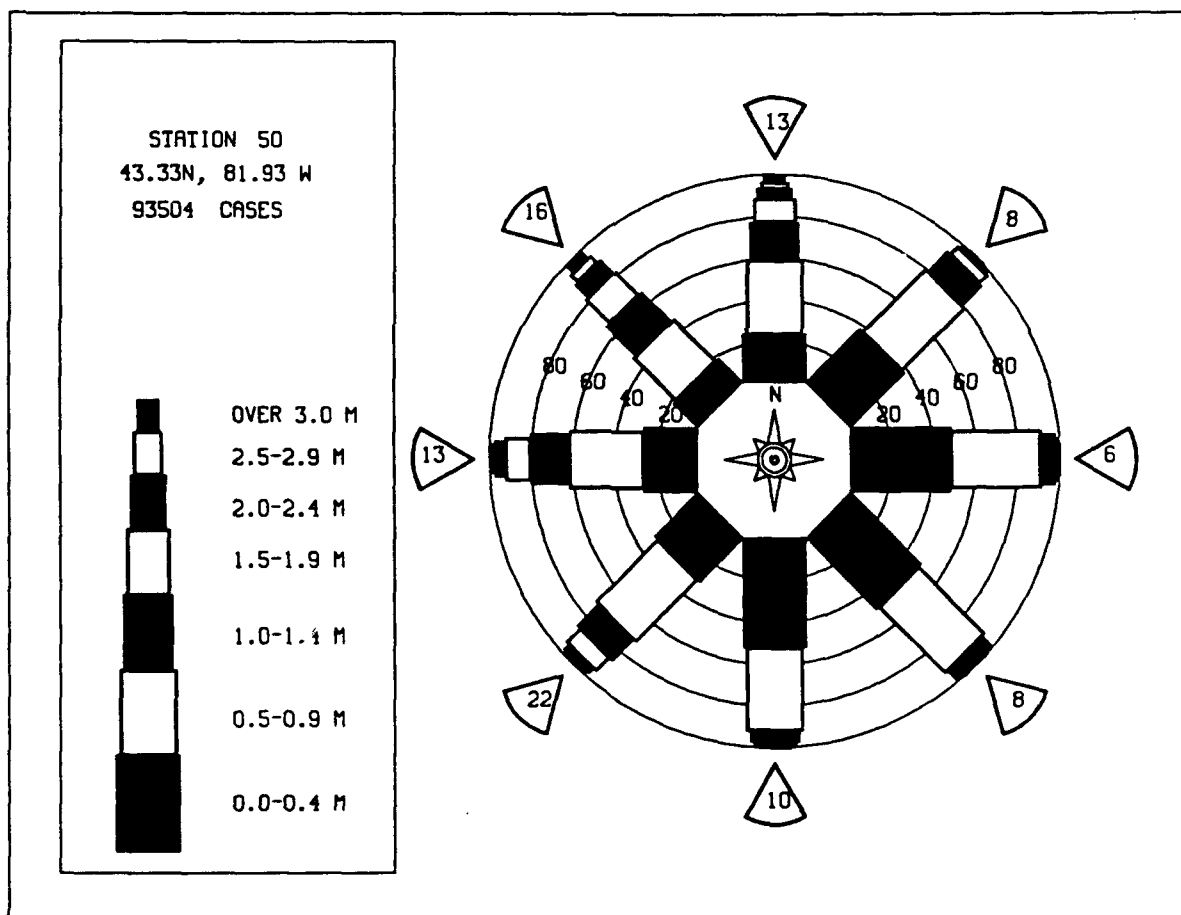
STATION H50 43.33N 81.93W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	312	428	315	155	24	52	2	.	.	.	1234
0.50-0.99	.	397	875	474	219	52	2	.	.	.	2019
1.00-1.49	.	.	201	558	350	157	19	.	.	.	1285
1.50-1.99	.	.	2	372	374	168	51	2	.	.	969
2.00-2.49	.	.	.	10	328	119	80	3	.	.	540
2.50-2.99	70	166	66	8	.	.	305
3.00-3.49	4	71	71	4	2	.	156
3.50-3.99	14	87	16	3	.	120
4.00-4.49	34	19	3	.	46
4.50-4.99	14	12	1	.	27
5.00-5.49	5	7	.	8
5.50-5.99	4	.	1	12
6.00-6.49	1	2	1	4
6.50-6.99	1	3	4
7.00+	1	1
TOTAL	312	825	1393	1569	1369	747	424	64	22	6	
MEAN HS(M) = 1.2	LARGEST HS(M) = 7.7		MEAN TP(SEC) = 5.1		NO. OF CASES = 6315.						

STATION H50 43.33N 81.93W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	906	1192	645	337	78	7	6	.	.	.	3165
0.50-0.99	.	1516	1389	525	308	68	28	.	.	.	3815
1.00-1.49	.	.	536	338	204	104	30	2	.	.	1410
1.50-1.99	.	.	39	524	214	66	28	2	.	.	875
2.00-2.49	.	.	.	22	285	35	24	2	.	.	372
2.50-2.99	.	.	.	1	82	68	21	2	.	.	177
3.00-3.49	2	54	25	3	.	.	80
3.50-3.99	13	25	4	.	.	42
4.00-4.49	14	4	1	.	19
4.50-4.99	3	3	.	.	7
5.00-5.49	1	1	1	.	3
5.50-5.99	1	1	.	2
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	906	2708	2609	1947	1173	415	184	22	3	0	

MEAN HS(M)= 0.9 LARGEST HS(M)= 7.7 MEAN TP(SEC)= 4.2 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H50 (43.33N 81.93W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	0.9	0.8	0.9	0.9	0.9	0.6	0.5	0.5	0.7	0.8	1.0	1.0	0.8
1957	1.1	0.9	0.8	0.8	0.8	0.7	0.5	0.5	0.7	0.8	1.0	1.0	0.8
1958	1.2	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1959	1.4	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1960	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1961	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1962	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1963	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1964	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1965	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1966	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1967	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1968	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1969	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1970	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1971	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1972	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1973	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1974	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1975	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1976	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1977	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1978	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1979	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1980	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1981	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1982	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1983	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1984	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1985	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1986	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
1987	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.1	1.1	1.0
MEAN	1.1	1.0	1.0	1.0	0.8	0.7	0.6	0.6	0.7	0.8	1.0	1.0	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H50 (43.33N 81.93W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.7	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1957	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1958	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1959	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1960	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1961	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1962	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1963	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1964	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1965	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1966	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1967	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1968	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1969	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1970	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1971	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1972	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1973	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1974	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1975	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1976	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1977	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1978	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1979	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1980	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1981	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1982	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1983	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1984	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1985	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1986	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	
1987	3.5	4.4	4.2	2.8	3.4	3.2	1.8	1.7	2.7	2.8	3.9	3.1	

32 YR. STATISTICS FOR WIS STATION H50

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	0.9
MEAN PEAK WAVE PERIOD	(SECONDS)	4.2
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	225.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.7
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.4
LARGEST WAVE HS	(METERS)	7.7
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	347.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		68011521

STATION H51 43.18N 82.12W		AZIMUTH(DEGREES) = 67.5									
PERCENT OCCURRENCE(X1000) OF HEIGHT		AND PERIOD BY DIRECTION									
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	410	439	308	157	31	2	.	.	.	.	1347
0.50-0.99	.	518	370	135	139	22	.	.	.	.	1189
1.00-1.49	.	.	228	67	22	28	3	1	.	.	348
1.50-1.99	.	.	20	85	7	7	.	.	.	.	125
2.00-2.49	.	.	.	17	28	1	3	.	.	.	46
2.50-2.99	9	.	.	.	.	.	11
3.00-3.49	2	.	.	.	.	.	2
3.50-3.99	3	.	.	.	.	3
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	410	957	926	461	237	63	20	1	0	0	
MEAN HS(M) = 0.6		LARGEST HS(M)= 3.6		MEAN TP(SEC)= 3.8		NO. OF CASES= 2886.					

STATION H51 43.18N 82.12W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49											1530
0.50-0.99	482	469	361	181	32	5					1385
1.00-1.49		810	197	205	141	31	1	.	.	.	290
1.50-1.99	.	.	211	28	21	26	4	.	.	.	82
2.00-2.49	.	.	45	25	3	6	3	.	.	.	11
2.50-2.99	.	.	.	11				.	.	.	2
3.00-3.49	.	.	.	1	1			.	.	.	0
3.50-3.99	.	.	.	.	.	.	.	.	.	.	0
4.00-4.49	.	.	.	.	.	.	.	.	.	.	0
4.50-4.99	.	.	.	.	.	.	.	.	.	.	0
5.00-5.49	.	.	.	.	.	.	.	.	.	.	0
5.50-5.99	.	.	.	.	.	.	.	.	.	.	0
6.00-6.49	.	.	.	.	.	.	.	.	.	.	0
6.50-6.99	.	.	.	.	.	.	.	.	.	.	0
7.00+	.	.	.	.	.	.	.	.	.	.	0
TOTAL	482	1279	814	451	198	68	8	0	0	0	
MEAN HS (M) = 0.6	LARGEST HS (M) =	2.8	MEAN TP (SEC) =	3.7	NO. OF CASES =	3096.					

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.8 MEAN TP(SEC)= 3.7 NO. OF CASES= 3096.

STATION H51 43.18N 82.12W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	501	407	281	145	35	3					1372
0.50-0.99	.	898	258	111	91	32	1	.	.	.	1391
1.00-1.49	.	.	253	6	10	12		.	.	.	281
1.50-1.99	.	.	24	49	1	2	3	.	.	.	79
2.00-2.49	.	.	.	10				.	.	.	10
2.50-2.99	.	.	.		3	.	.	.	.	.	3
3.00-3.49	.	.	.		1	.	.	.	.	.	1
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	501	1305	816	321	141	49	4	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.1 MEAN TP(SEC)= 3.5 NO. OF CASES= 2942.

STATION H51 43.18N 82.12W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	744	478	402	223	39	10					1896
0.50-0.99		1171	555	105	84	23	3	.	.	.	1941
1.00-1.49			345		11	4	1	.	.	.	361
1.50-1.99			3	102		2		.	.	.	108
2.00-2.49				16	2			.	.	.	18
2.50-2.99					1			.	.	.	1
3.00-3.49								.	.	.	0
3.50-3.99								.	.	.	0
4.00-4.49								.	.	.	0
4.50-4.99								.	.	.	0
5.00-5.49								.	.	.	0
5.50-5.99								.	.	.	0
6.00-6.49								.	.	.	0
6.50-6.99								.	.	.	0
7.00+								.	.	.	0
TOTAL	744	1649	1305	446	138	39	4	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 2.8 MEAN TP(SEC)= 3.5 NO. OF CASES= 4051.

STATION H51 43.18N 82.12W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	787	621	399	208	58	8	.	.	.	.	2082
0.50-0.99	.	1291	399	100	71	18	5	.	.	.	1884
1.00-1.49	.	.	265	.	8	5	1	.	.	.	279
1.50-1.99	.	.	11	80	.	1	.	.	.	.	92
2.00-2.49	.	.	.	5	2	.	.	.	.	.	7
2.50-2.99	1	.	.	.	.	.	1
3.00-3.49	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	787	1912	1074	393	140	32	7	0	0	0	

MEAN HS(M) = 0.5 LARGEST HS(M)= 2.6 MEAN TP(SEC)= 3.4 NO. OF CASES= 4072.

STATION H51 43.18N 82.12W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	1191	1168	490	308	99	11	.	.	.	.	3267
0.50-0.99	.	1923	343	177	130	37	12	.	.	.	2622
1.00-1.49	.	.	367	2	6	5	4	.	.	.	384
1.50-1.99	.	.	95	65	1	.	.	.	.	.	161
2.00-2.49	.	.	.	23	.	.	.	.	.	.	23
2.50-2.99	1	.	.	.	.	.	1
3.00-3.49	1	.	.	.	.	.	0
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	1191	3091	1295	575	238	53	16	0	0	0	
MEAN HS(M) = 0.5	LARGEST HS(M)= 3.2		MEAN TP(SEC)= 3.4		NO. OF CASES= 6049.						

STATION H51 43.18N 82.12W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	1050	1681	382	326	111	20					3570
0.50-0.99		3322	1930	228	117	40					5646
1.00-1.49			1622	567	5	7	9	1			2209
1.50-1.99			183	695	21		7				899
2.00-2.49				51	185						246
2.50-2.99				1	68						69
3.00-3.49					1	19					20
3.50-3.99						3					3
4.00-4.49											1
4.50-4.99						1		1			1
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	1050	5003	4117	1868	518	90	17	1	0	0	
MEAN HS(M) = 0.8	LARGEST HS(M) = 4.7		MEAN TP(SEC) = 3.7		NO. OF CASES = 11853.						

STATION H51 43.18N 82.12W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	787	1039	368	306	131	24	.	.	.	2655	
0.50-0.99	.	991	1652	185	150	68	24	.	.	3070	
1.00-1.49	.	.	1065	670	7	5	5	1	.	1753	
1.50-1.99	.	.	7	856	22	2	3	.	.	890	
2.00-2.49	.	.	.	21	298	.	.	.	.	319
2.50-2.99	93	.	.	.	.	93	
3.00-3.49	6	36	.	.	.	42	
3.50-3.99	22	.	.	.	22	
4.00-4.49	5	1	.	.	6	
4.50-4.99	4	.	.	4	
5.00-5.49	0	
5.50-5.99	0	
6.00-6.49	0	
6.50-6.99	0	
7.00+	0	
TOTAL	787	2030	3092	2038	707	162	37	1	0	0	
MEAN HS(M) = 0.9	LARGEST HS(M)=		4.8	MEAN TP(SEC)=		4.1	NO. OF CASES=		8291.		

STATION H51 43.18N 82.12W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	530	732	233	215	110	12	3				1836
0.50-0.99		736	1032	170	166	88	23	3			2198
1.00-1.49			860	432	21	27	21	3			1364
1.50-1.99				658	7	2	4				676
2.00-2.49				45	224						269
2.50-2.99					104						104
3.00-3.49					5	23					28
3.50-3.99						10					10
4.00-4.49						3	4				7
4.50-4.99							1				1
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	530	1468	2110	1521	637	165	56	6	0	0	
MEAN HS (M) = 0.9	LARGEST HS (M) =		4.6	MEAN TP (SEC) =		4.2	NO. OF CASES =		6086.		

STATION H51 43.18N 82.12W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	551	681	243	213	97	7	3	.	.	.	1795
0.50-0.99	.	1018	901	259	249	130	44	1	.	.	2602
1.00-1.49	.	.	1167	344	60	72	54	2	1	.	1700
1.50-1.99	.	.	6	817	8	23	16	2	2	.	874
2.00-2.49	.	.	.	79	168	5	10	1	.	.	263
2.50-2.99	79	.	.	1	.	.	80
3.00-3.49	21	5	.	1	1	.	27
3.50-3.99	9	.	2	.	.	11
4.00-4.49	5	.	.	.	.	5
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	551	1699	2317	1712	682	256	127	9	4	0	
MEAN HS (M) = 0.9	LARGEST HS (M) = 4.1		MEAN TP (SEC) = 4.2		NO. OF CASES = 6895.						

STATION H51 43.18N 82.12W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	465	570	168	190	53	8					1464
0.50-0.99		878	844	219	251	105	27				2525
1.00-1.49		1	1043	387	63	86	44	5			1629
1.50-1.99			10	826	26	33	23	5	3		926
2.00-2.49				95	198	9	21	6	2		331
2.50-2.99				1	118	2	7	3			131
3.00-3.49					20	19	2	1	1		43
3.50-3.99						7	1		1		8
4.00-4.49						4	2				6
4.50-4.99						1	1	1	1		4
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	465	1550	2165	1718	739	274	128	21	8	0	
MEAN HS (M) = 1.0	LARGEST HS (M) = 4.6		MEAN TP (SEC) = 4.3		NO. OF CASES = 6626.						

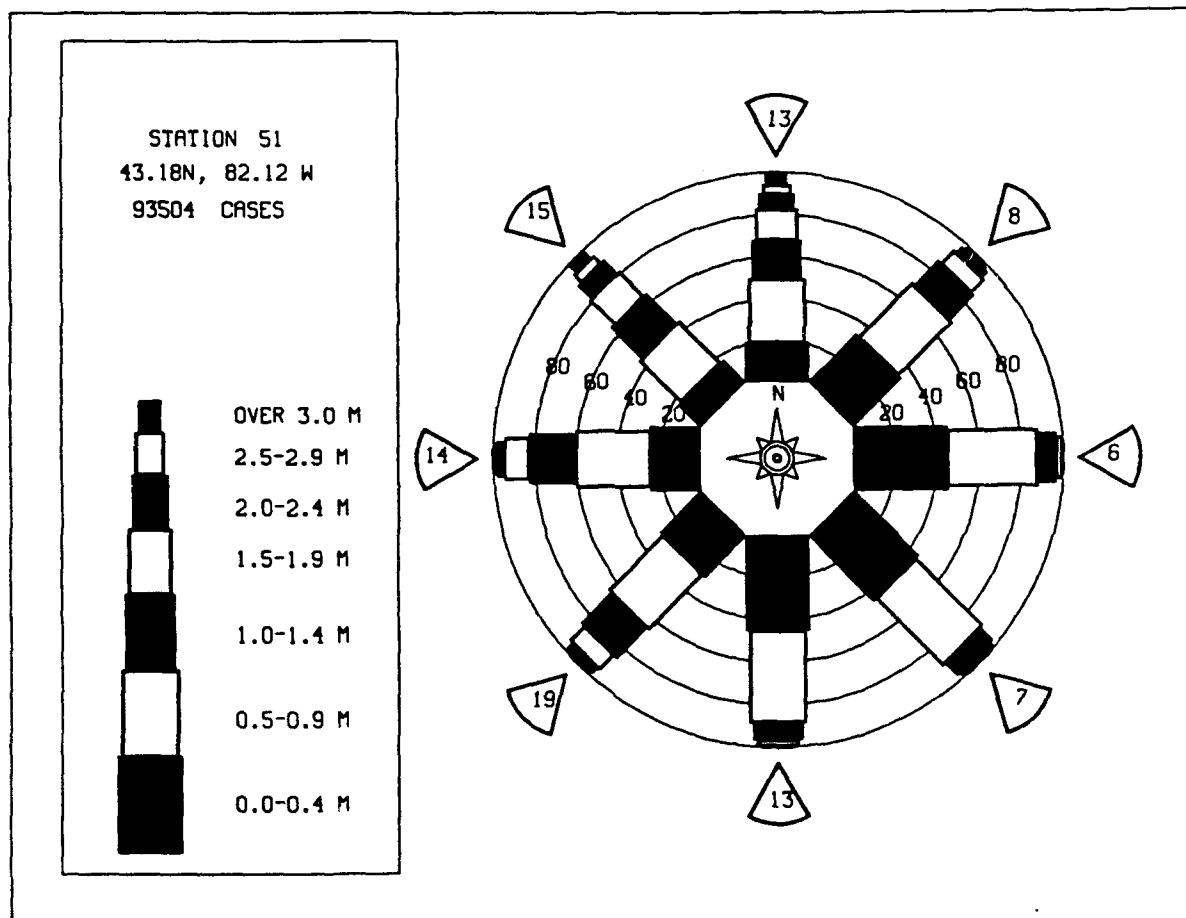
STATION H51 43.18N 82.12W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	293	433	227	147	54	5					1156
0.50-0.99		606	1198	273	243	77	14				2411
1.00-1.49			596	799	174	154	58	5			1786
1.50-1.99			12	1186	303	58	83	6			1648
2.00-2.49				47	779	26	49	5	1		907
2.50-2.99					390	98	43	9	1		541
3.00-3.49					14	191	27	7	2		241
3.50-3.99						116	31	9	2		158
4.00-4.49						5	34	3	3	1	45
4.50-4.99							24	2	2		25
5.00-5.49							6	1	1		12
5.50-5.99							1	1			2
6.00-6.49								2	2		4
6.50-6.99									1		1
7.00+											
TOTAL	293	1039	2033	2452	1957	730	370	58	15	1	
MEAN HS (M) = 1.4	LARGEST HS (M) = 7.2		MEAN TP (SEC) = 5.0		NO. OF CASES = 8390.						

STATION H51 43.18N 82.12W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	316	312	189	135	32	5	2	.	.	.	991
0.50-0.99	.	407	703	254	166	41	2	.	.	.	1573
1.00-1.49	.	.	248	488	179	122	23	.	.	.	1060
1.50-1.99	.	.	6	635	245	75	35	.	.	.	997
2.00-2.49	.	.	.	19	405	58	49	1	.	.	537
2.50-2.99	183	139	55	3	.	.	380
3.00-3.49	9	145	31	18	.	.	203
3.50-3.99	47	59	8	.	.	118
4.00-4.49	6	59	1	3	.	69
4.50-4.99	45	1	1	.	58
5.00-5.49	12	22	4	1	39
5.50-5.99	3	4	.	12
6.00-6.49	2	.	1	3
6.50-6.99	7	7
TOTAL	316	719	1146	1531	1219	638	372	83	22	9	
MEAN HS(M) = 1.4	LARGEST HS(M) = 8.5		MEAN TP(SEC) = 5.1		NO. OF CASES = 5686.						

STATION H51 43.18N 82.12W FOR ALL DIRECTIONS										
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-11.9
										LONGER
0.00-0.49	935	1038	498	327	100	13	19	.	.	2911
0.50-0.99	.	1650	1324	316	246	81	25	.	.	3636
1.00-1.49	.	.	977	493	97	73	21	2	.	1657
1.50-1.99	.	.	44	767	107	39	19	1	.	979
2.00-2.49	.	.	.	53	307	17	17	1	.	397
2.50-2.99	133	41	11	3	.	192
3.00-3.49	11	67	11	2	.	92
3.50-3.99	27	17	1	.	46
4.00-4.49	3	16	1	.	20
4.50-4.99	11	3	.	14
5.00-5.49	2	4	.	6
5.50-5.99	1	.	2
6.00-6.49	1	1
6.50-6.99	0
7.00+	0
TOTAL	935	2688	2843	1956	1001	361	158	19	2	0
MEAN HS(M)= 0.9	LARGEST HS(M)= 8.5 MEAN TP(SEC)= 4.1 TOTAL CASES= 93504.									



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H51 (43.18N 82.12W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	0.9	0.7	0.8	0.8	0.8	0.6	0.5	0.5	0.6	0.8	0.9	0.9	0.7
1957	1.0	0.8	0.7	0.8	0.8	0.6	0.5	0.5	0.6	0.8	0.9	0.9	0.8
1958	1.1	1.4	0.7	0.9	0.8	0.6	0.5	0.5	0.6	0.8	1.1	1.1	0.8
1959	1.3	1.2	1.0	1.1	1.0	0.8	0.7	0.7	0.8	1.1	1.1	1.1	0.9
1960	1.1	1.4	1.0	0.8	0.8	0.6	0.5	0.5	0.6	0.8	1.1	1.1	0.8
1961	1.1	1.1	1.1	0.8	0.8	0.6	0.5	0.5	0.6	0.8	1.1	1.1	0.8
1962	1.1	1.1	1.1	0.8	0.8	0.6	0.5	0.5	0.6	0.8	1.1	1.1	0.8
1963	0.9	0.9	0.9	1.0	0.7	1.0	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1964	1.0	1.0	1.1	1.0	1.0	1.0	0.7	0.7	0.7	0.8	1.1	1.1	0.8
1965	1.1	1.1	1.1	1.0	0.7	1.0	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1966	1.1	1.1	1.1	1.0	0.8	0.8	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1967	1.1	1.1	1.1	1.0	0.8	0.8	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1968	1.1	1.1	1.1	1.0	0.8	0.8	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1969	1.1	1.1	1.1	1.0	0.8	0.8	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1970	1.1	1.1	1.1	1.0	0.8	0.8	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1971	1.1	1.1	1.1	1.0	0.8	0.8	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1972	1.1	1.1	1.1	1.0	0.8	0.8	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1973	1.1	1.1	1.1	1.0	0.8	0.8	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1974	0.6	0.9	0.9	1.1	1.1	1.1	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1975	1.0	1.0	1.1	1.1	1.1	1.1	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1976	1.2	1.2	1.1	1.1	1.1	1.1	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1977	1.1	1.1	1.1	1.1	1.1	1.1	0.6	0.6	0.6	0.8	1.1	1.1	0.8
1978	1.3	0.8	0.9	1.3	1.0	0.9	0.9	0.7	0.8	1.1	1.1	1.3	0.8
1979	1.4	1.2	0.9	1.0	0.8	0.8	0.5	0.7	0.7	0.8	1.1	1.3	0.8
1980	1.1	1.1	1.3	1.1	0.8	0.8	0.5	0.5	0.7	0.9	1.1	1.2	0.8
1981	1.0	1.2	1.4	1.3	1.1	0.8	0.7	0.5	0.9	1.0	1.1	1.3	0.8
1982	1.5	1.1	1.0	1.4	0.6	0.7	0.6	0.7	0.5	0.7	1.1	1.1	0.8
1983	1.1	0.8	1.2	1.1	1.1	1.1	0.7	0.6	0.7	0.9	1.1	1.4	0.8
1984	1.0	1.2	1.4	1.1	1.0	0.8	0.6	0.5	0.6	0.6	1.1	1.1	0.8
1985	1.4	1.1	1.3	1.1	1.0	1.1	0.8	0.6	0.7	0.8	1.1	1.1	0.8
1986	1.4	0.9	1.2	1.1	1.0	1.0	0.8	0.6	0.7	0.8	1.1	1.1	0.8
1987	0.7	0.6	0.7	0.8	0.5	0.4	0.4	0.5	0.4	0.6	0.8	0.9	0.6
MEAN	1.1	1.1	1.1	1.1	0.9	0.7	0.6	0.6	0.7	0.9	1.0	1.1	

LARGEST HS(METERS) BY MONTH AND YEAR

WIS STATION H51 (43.18N 82.12W)

YEAR	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1957	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1958	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1959	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1960	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1961	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1962	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1963	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1964	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1965	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1966	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1967	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1968	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1969	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1970	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1971	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1972	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1973	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1974	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1975	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1976	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1977	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1978	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1979	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1980	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1981	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1982	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1983	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1984	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1985	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1986	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	
1987	3.7	3.6	3.3	3.2	2.9	2.6	2.9	1.6	2.5	2.5	3.4	2.4	

32 YR. STATISTICS FOR WIS STATION H51

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	0.9
MEAN PEAK WAVE PERIOD (SECONDS)	4.1
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	202.5
STANDARD DEVIATION OF WAVE HS (METERS)	0.7
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.4
LARGEST WAVE HS (METERS)	8.5
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	2.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	68011518

STATION H52 43.75N 82.12W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT A'D PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	244	529	421	165	19	1					1379
0.50-0.99		413	894	649	193	24	1				2174
1.00-1.49			150	440	394	111	8				1103
1.50-1.99			5	226	293	193	32				749
2.00-2.49				2	163	126	74				357
2.50-2.99					24	75	69	3			171
3.00-3.49						45	31	18			88
3.50-3.99						2	54	6	1		63
4.00-4.49							22	8			26
4.50-4.99							8				17
5.00-5.49							5		3		8
5.50-5.99							2		1		3
6.00-6.49								1			1
6.50-6.99								1			0
7.00+								1			1
TOTAL	244	942	1470	1482	1086	577	299	42	6	0	
MEAN HS(M) = 1.1	LARGEST HS(M)=		7.0	MEAN TP(SEC)= 4.9		NO. OF CASES=		5767.			

STATION H52 43.75N 82.12W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	172	421	336	113	13						1055
0.50-0.99		300	728	458	196	20					1702
1.00-1.49			152	282	299	64					808
1.50-1.99			5	175	189	11					518
2.00-2.49				4	88	21					184
2.50-2.99					19	27					95
3.00-3.49					1	25					47
3.50-3.99						2	28				31
4.00-4.49								1			2
4.50-4.99							2				1
5.00-5.49								1			2
5.50-5.99									1		0
6.00-6.49										1	1
6.50-6.99								1			1
7.00-7.49											0
TOTAL	172	721	1221	1032	805	349	148	4	1	0	
MEAN HS(M) = 1.0	LARGEST HS(M) =		6.8	MEAN TP(SEC) =		4.7	NO. OF CASES =		4179.		

STATION H52 43.75N 82.12W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	255	550	455	160	18	1	.	.	.	.	1439
0.50-0.99	.	356	765	576	223	17	.	.	.	.	1937
1.00-1.49	.	.	282	185	198	59	2	.	.	.	726
1.50-1.99	.	.	9	176	82	79	4	.	.	.	350
2.00-2.49	.	.	.	42	81	62	9	1	.	.	195
2.50-2.99	40	17	10	.	.	.	67
3.00-3.49	20	7	23	1	.	.	31
3.50-3.99	8	11	.	.	.	19
4.00-4.49	2	2	3	.	.	7
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	255	906	1511	1139	662	252	61	5	0	0	
MEAN HS (M) = 0.8	LARGEST HS (M) =		4.4	MEAN TP (SEC) =		4.4	NO. OF CASES =		4494.		

STATION H52 43.75N 82.12W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

[illegible]

STATION H52 43.75N 82.12W AZIMUTH(DEGREES) = 90.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	360	594	394	163	10	2					1523
0.50-0.99		669	339	278	122	10	2				1420
1.00-1.49			365	59	42	19	3				488
1.50-1.99				161	5	7	1				174
2.00-2.49				9	17	7	1				34
2.50-2.99					13						13
3.00-3.49					1	2					3
3.50-3.99						2					2
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	360	1263	1098	670	210	48	7	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 3.7 MEAN TP(SEC)= 3.8 NO. OF CASES= 3431.

STATION H52 43.75N 82.12W AZIMUTH(DEGREES) = 112.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	419	540	308	128	13						1408
0.50-0.99		609	486	175	75	8					1353
1.00-1.49			386	126	8	19	4				543
1.50-1.99			2	207	1	4					214
2.00-2.49				9	38		1				48
2.50-2.99					18						18
3.00-3.49					1	1					2
3.50-3.99											0
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	419	1149	1182	645	154	32	5	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 3.0 MEAN TP(SEC)= 3.7 NO. OF CASES= 3361.

STATION H52 43.75N 82.12W AZIMUTH(DEGREES) = 135.0
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	532	709	421	167	22	1					1852
0.50-0.99		468	745	173	73	10					1469
1.00-1.49			274	148	8	10	1				441
1.50-1.99				134	2		1				137
2.00-2.49				1	34						35
2.50-2.99					12						12
3.00-3.49					1						1
3.50-3.99											0
4.00-4.49											0
4.50-4.99							1				1
5.00-5.49							1				1
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	532	1177	1440	623	152	21	4	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 4.8 MEAN TP(SEC)= 3.7 NO. OF CASES= 3702.

STATION H52 43.75N 82.12W AZIMUTH(DEGREES) = 157.5
 PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	475	900	363	181	29	1	1				1950
0.50-0.99		591	1184	141	74	14					2004
1.00-1.49			438	269	13	7	1				728
1.50-1.99				145	32						177
2.00-2.49				4	48	1					53
2.50-2.99					9	10					19
3.00-3.49						3	1				4
3.50-3.99						2					2
4.00-4.49											0
4.50-4.99							1				1
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	475	1491	1985	740	205	38	4	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 4.8 MEAN TP(SEC)= 3.8 NO. OF CASES= 4629.

STATION H52 43.75N 82.12W AZIMUTH(DEGREES) =180.0										
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	643	1835	557	198	29	2	.	.	.	3264
0.50-0.99	.	924	2503	758	102	20	1	.	.	4308
1.00-1.49	.	.	302	1029	130	7	2	.	.	1470
1.50-1.99	.	.	2	612	463	11	1	.	.	1089
2.00-2.49	.	.	.	6	349	7	.	.	.	362
2.50-2.99	91	103	2	.	.	196
3.00-3.49	64	.	.	.	64
3.50-3.99	17	11	.	.	28
4.00-4.49	7	.	.	7
4.50-4.99	1	.	.	2
5.00-5.49	2	.	.	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	643	2759	3364	2603	1164	231	27	0	0	0

MEAN HS(M) = 0.8 LARGEST HS(M)= 5.1 MEAN TP(SEC)= 4.2 NO. OF CASES= 10104.

STATION H52 43.75N 82.12W AZIMUTH(DEGREES) =202.5										
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	567	1697	517	222	23	2	.	.	.	3028
0.50-0.99	.	1075	3068	1024	117	25	.	.	.	5309
1.00-1.49	.	.	316	1591	239	9	1	.	.	2156
1.50-1.99	.	.	2	903	722	24	1	.	.	1652
2.00-2.49	.	.	.	4	604	35	1	.	.	644
2.50-2.99	126	162	4	.	.	292
3.00-3.49	102	4	1	.	107
3.50-3.99	20	22	.	.	42
4.00-4.49	1	11	.	.	12
4.50-4.99	4	.	.	4
5.00-5.49	2	.	.	2
5.50-5.99	0
6.00-6.49	1	.	1
6.50-6.99	0
7.00+	0
TOTAL	567	2772	3903	3744	1831	380	50	2	0	0

MEAN HS(M) = 1.0 LARGEST HS(M)= 6.4 MEAN TP(SEC)= 4.4 NO. OF CASES= 12403.

STATION H52 43.75N 82.12W AZIMUTH(DEGREES) =225.0										
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	555	949	393	226	32	.	.	.	.	2155
0.50-0.99	.	697	1501	389	118	29	2	.	.	2736
1.00-1.49	.	.	220	697	39	9	4	.	.	969
1.50-1.99	.	.	.	583	212	3	6	.	.	804
2.00-2.49	.	.	.	2	326	2	2	.	.	332
2.50-2.99	91	45	2	.	.	138
3.00-3.49	69	.	.	.	69
3.50-3.99	21	5	.	.	26
4.00-4.49	17	.	.	17
4.50-4.99	3	.	.	3
5.00-5.49	7	.	.	7
5.50-5.99	1	.	.	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	555	1646	2114	1897	818	178	49	0	0	0

MEAN HS(M) = 0.9 LARGEST HS(M)= 5.5 MEAN TP(SEC)= 4.2 NO. OF CASES= 6799.

STATION H52 43.75N 82.12W AZIMUTH(DEGREES) =247.5										
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION										
HEIGHT(METRES)	PEAK PERIOD(SECONDS)									
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER
0.00-0.49	373	599	317	150	38	4	.	.	.	1481
0.50-0.99	.	453	987	264	146	48	.	.	.	1903
1.00-1.49	.	.	371	524	36	23	13	.	.	967
1.50-1.99	.	.	1	499	79	4	2	1	.	586
2.00-2.49	.	.	.	2	245	.	.	.	.	247
2.50-2.99	69	12	.	.	.	82
3.00-3.49	2	31	.	.	1	33
3.50-3.99	12	.	.	.	15
4.00-4.49	2	.	.	2
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	373	1052	1676	1439	615	134	27	1	1	0

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.6 MEAN TP(SEC)= 4.3 NO. OF CASES= 4984.

STATION H52 43.75N 82.12W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	362	621	357	182	47	5					1574
0.50-0.99		524	893	394	225	55	10				2101
1.00-1.49			491	421	85	63	37				1097
1.50-1.99			2	532	16	13	11				578
2.00-2.49				9	193		4				207
2.50-2.99					52			1			53
3.00-3.49					4						16
3.50-3.99						11	1				4
4.00-4.49											0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	362	1145	1743	1538	622	151	63	6	0	0	
MEAN HS (M) = 0.9	LARGEST HS (M) = 3.7		MEAN TP (SEC) = 4.3		NO. OF CASES = 5277.						

STATION H52 43.75N 82.12W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	310	566	392	160	18	1					1447
0.50-0.99		531	1112	463	294	62	8	.	.	.	2470
1.00-1.49		.	518	412	240	135	40	1	.	.	1346
1.50-1.99		.	.	633	72	66	40	3	.	.	818
2.00-2.49		.	4	48	195	27	32	3	.	.	305
2.50-2.99		.	.	.	77	24	6	1	.	.	108
3.00-3.49		.	.	.	11	13	11	1	.	.	36
3.50-3.99		.	.	.	.	7	2	.	.	.	9
4.00-4.49		.	.	.	.	.	3	1	.	.	4
4.50-4.99		.	.	.	.	.	1	.	.	.	1
5.00-5.49		.	.	.	.	.	.	.	.	.	0
5.50-5.99		.	.	.	.	.	.	.	.	.	0
6.00-6.49		.	.	.	.	.	.	.	.	.	0
6.50-6.99		.	.	.	.	.	.	.	.	.	0
7.00+		.	.	.	.	.	.	.	.	.	0
TOTAL	310	1097	2026	1716	907	335	143	10	0	0	
MEAN HS (M) = 1.0	LARGEST HS (M) = 4.6		MEAN TP (SEC) = 4.5		NO. OF CASES = 6134.						

STATION H52 43.75N 82.12W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	248	489	481	160	21						1399
0.50-0.99		536	1297	779	326	47	3	.	.	.	2988
1.00-1.49			278	698	525	182	40	.	.	.	1723
1.50-1.99			4	532	575	219	75	3	.	.	1408
2.00-2.49				24	468	220	82		.	.	800
2.50-2.99					90	269	96	6	2	.	463
3.00-3.49					1	160	68			.	234
3.50-3.99						12	124	3	2	.	141
4.00-4.49							55	3	3	.	63
4.50-4.99							19	6	1	.	29
5.00-5.49							2	14	1	.	17
5.50-5.99								5	2	.	7
6.00-6.49									1	.	1
6.50-6.99									2	.	2
7.00+										.	0
TOTAL	248	1025	2060	2193	2006	1109	564	56	14	0	
MEAN HS(M) = 1.3	LARGEST HS(M)=		6.7	MEAN TP(SEC)=		5.1	NO. OF CASES=		8691.		

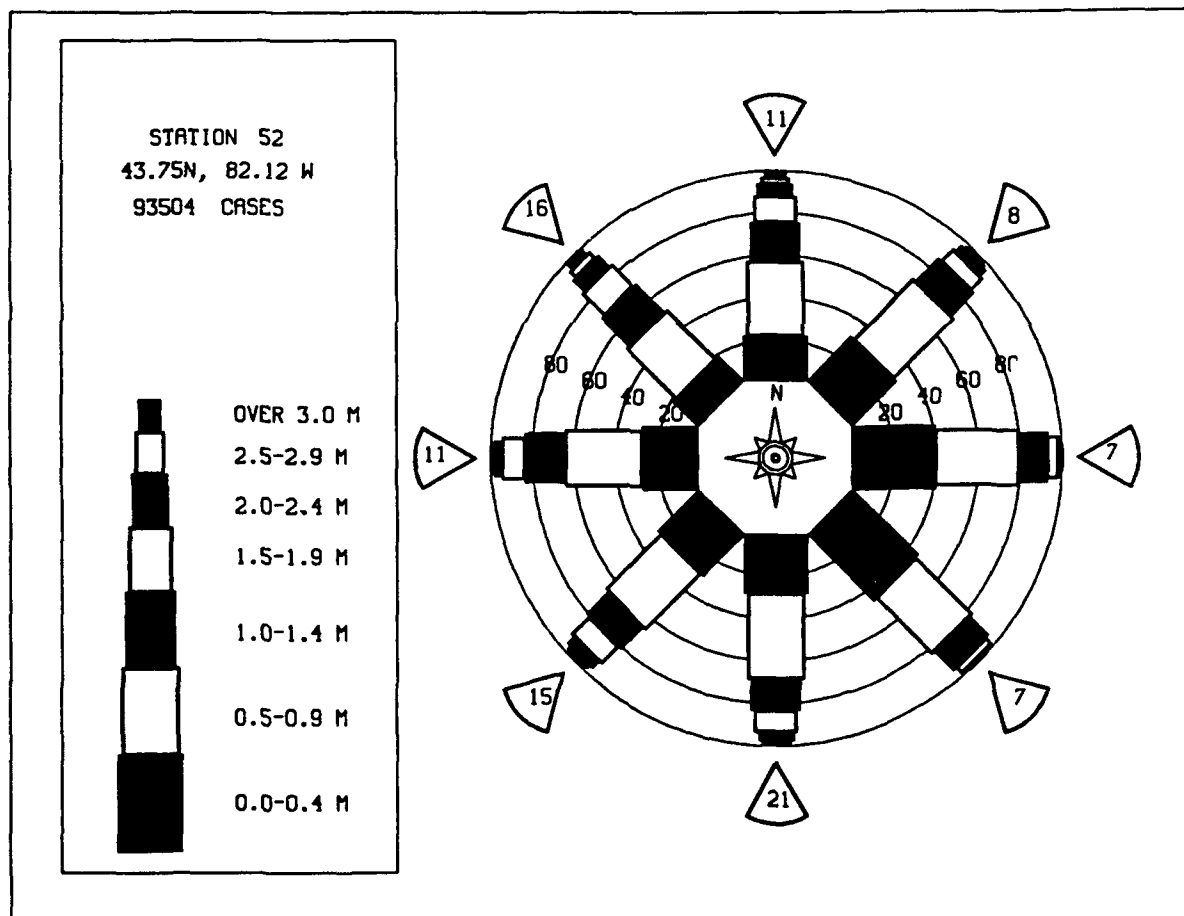
STATION H52 43.75N 82.12W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	236	426	349	131	17						1158
0.50-0.99		454	1012	567	227	33	2	.	.	.	2295
1.00-1.49				488	473	112	18				1253
1.50-1.99				280	438	204	41	1			969
2.00-2.49			5	3	207	188	87	1			486
2.50-2.99					25	149	86	4			264
3.00-3.49					3	58	57	20	1		139
3.50-3.99						2	66	4	4		76
4.00-4.49							31	6			37
4.50-4.99							8	11	2	1	22
5.00-5.49							1	6	1		8
5.50-5.99								3	1		7
6.00-6.49									4		4
6.50-6.99										1	1
7.00+											0
TOTAL	236	880	1528	1469	1390	746	397	56	16	2	
MEAN HS (M) = 1.2	LARGEST HS (M) = 6.5		MEAN TP (SEC) = 5.1		NO. OF CASES = 6303.						

STATION H52 43.75N 82.12W FOR ALL DIRECTIONS
 PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	606	1192	640	264	36	2	.	.	.	.	2740
0.50-0.99	.	905	1800	745	257	43	.	.	.	.	3763
1.00-1.49	.	.	497	745	281	86	19	.	.	.	1628
1.50-1.99	.	.	4	596	320	97	24	1	.	.	1042
2.00-2.49	.	.	.	19	309	75	32	1	.	.	436
2.50-2.99	78	59	31	4	.	.	202
3.00-3.49	3	11	22	4	.	.	90
3.50-3.99	16	2	.	.	45
4.00-4.49	5	2	.	.	18
4.50-4.99	1	2	.	.	7
5.00-5.49	1	.	.	3
5.50-5.99	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	606	2097	2941	2369	1296	465	186	15	0	0	

MEAN HS(M)= 0.9 LARGEST HS(M)= 7.0 MEAN TP(SEC)= 4.4 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H52 (43.75N 82.12W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	1.0	0.9	1.0	1.0	1.0	0.7	0.5	0.6	0.8	1.0	1.1	1.0	0.9
1957	1.2	1.0	0.9	0.9	0.9	0.8	0.6	0.6	0.8	1.0	1.1	1.4	0.9
1958	1.2	1.5	0.7	1.0	1.0	1.1	0.7	1.0	1.2	1.3	1.5	1.3	1.1
1959	1.5	1.4	1.3	1.4	1.3	1.1	1.0	0.9	1.2	1.3	1.4	1.5	1.1
1960	1.4	1.7	1.2	1.1	1.1	0.7	0.7	0.6	0.7	0.9	1.6	1.7	1.1
1961	1.4	1.1	1.4	1.0	0.9	1.0	0.6	0.7	0.8	1.1	1.1	1.1	1.0
1962	1.4	1.0	0.8	1.1	0.8	0.7	0.8	0.6	1.0	0.8	1.0	1.3	0.9
1963	1.2	1.1	1.0	1.2	0.8	0.6	0.8	0.7	0.7	0.8	1.2	1.0	0.9
1964	1.4	1.2	1.4	1.4	1.2	0.8	0.8	0.9	1.1	1.1	1.1	1.1	1.1
1965	1.4	1.5	1.0	0.9	0.8	0.8	0.7	0.8	0.9	1.3	1.2	1.1	1.1
1966	1.3	1.0	1.2	0.9	0.9	0.6	0.6	0.6	0.9	1.1	1.1	1.0	1.1
1967	1.1	1.5	0.9	1.1	0.9	0.9	0.9	0.9	0.9	1.2	1.1	1.1	1.1
1968	1.1	1.5	0.9	1.1	0.9	0.9	0.9	0.9	0.9	1.1	1.4	1.1	1.1
1969	1.1	1.0	0.8	1.1	0.9	0.8	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1970	0.9	1.1	0.8	1.1	0.9	0.8	0.8	0.8	0.9	1.1	1.1	1.1	1.1
1971	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1972	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1973	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1974	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
1975	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
1976	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1977	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1978	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1979	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1980	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1981	0.9	1.2	1.3	1.2	0.8	0.7	0.6	0.5	0.7	0.9	0.9	1.0	0.9
1982	1.3	0.8	0.8	1.2	0.7	0.6	0.6	0.7	0.7	0.7	0.7	1.1	0.9
1983	1.0	0.8	1.1	1.0	0.9	0.5	0.6	0.4	0.7	0.7	1.1	1.1	0.8
1984	1.0	1.0	1.3	1.0	0.9	0.6	0.5	0.4	0.6	0.6	1.0	1.0	0.8
1985	1.3	0.9	1.1	0.9	0.7	0.6	0.8	0.4	0.6	0.7	0.9	1.1	0.8
1986	1.1	0.8	1.1	0.9	0.8	0.7	0.6	0.6	0.6	0.7	0.9	0.8	0.8
1987	0.9	0.7	0.8	1.0	0.7	0.6	0.6	0.6	0.5	0.8	1.1	1.1	0.8
MEAN	1.2	1.1	1.0	1.0	0.8	0.7	0.6	0.6	0.8	0.9	1.1	1.1	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H52 (43.75N 82.12W)

YEAR	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.7	4.7	4.0	3.0	3.5	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1957	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1958	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1959	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1960	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1961	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1962	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1963	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1964	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1965	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1966	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1967	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1968	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1969	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1970	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1971	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1972	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1973	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1974	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1975	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1976	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1977	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1978	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1979	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1980	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1981	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1982	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1983	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1984	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1985	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1986	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	
1987	4.4	4.0	4.0	3.4	2.9	3.3	1.9	1.7	2.2	3.3	3.7	2.8	

32 YR. STATISTICS FOR WIS STATION H52

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	0.9
MEAN PEAK WAVE PERIOD (SECONDS)	4.4
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	202.5
STANDARD DEVIATION OF WAVE HS (METERS)	0.7
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.4
LARGEST WAVE HS (METERS)	7.0
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	9.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	359.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	84032921

MEAN HS(M) = 1.0 LARGEST HS(M)= 6.0 MEAN TP(SEC)= 4.8 NO. OF CASES= 5244.

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.3 MEAN TP(SEC)= 4.6 NO. OF CASES= 4374.

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.8 MEAN TP(SEC)= 4.5 NO. OF CASES= 4631.

MEAN HS(M) = 0.9 LARGEST HS(M)= 5.4 MEAN TP(SEC)= 4.2 NO. OF CASES= 3287.

STATION H53 44.18N 82.32W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	262	783	224	51	2						1322
0.50-0.99		392	688	238	25	3	1				1347
1.00-1.49			110	295	33	4					442
1.50-1.99				240	81	3	1				325
2.00-2.49				3	126	5	2				136
2.50-2.99					51	20	1				72
3.00-3.49						19	2				21
3.50-3.99						10	1				11
4.00-4.49							1				1
4.50-4.99							2				2
5.00-5.49							1				1
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	262	1175	1022	827	318	64	12	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 5.0 MEAN TP(SEC)= 4.0 NO. OF CASES= 3450.

STATION H53 44.18N 82.32W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	265	605	174	59							1103
0.50-0.99		363	674	172	28	2					1239
1.00-1.49			91	226	13	3					333
1.50-1.99				167	83						250
2.00-2.49					97		1				98
2.50-2.99					29	11					40
3.00-3.49						7					7
3.50-3.99						2	1				3
4.00-4.49							1				1
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	265	968	939	624	250	25	3	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.0 MEAN TP(SEC)= 3.9 NO. OF CASES= 2885.

STATION H53 44.18N 82.32W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	370	836	218	66	6						1496
0.50-0.99		420	753	167	28	1					1369
1.00-1.49			70	180	17	1					268
1.50-1.99				106	35						141
2.00-2.49					33	2					35
2.50-2.99					2	2					4
3.00-3.49											0
3.50-3.99											0
4.00-4.49							1				1
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	370	1256	1041	519	121	6	1	0	0	0	

MEAN HS(M) = 0.6 LARGEST HS(M)= 4.0 MEAN TP(SEC)= 3.6 NO. OF CASES= 3106.

STATION H53 44.18N 82.32W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	346	1088	273	79	4						1790
0.50-0.99		610	1226	396	36	3					2271
1.00-1.49			127	475	88	1					695
1.50-1.99			1	171	112						290
2.00-2.49				2	54	16	2				76
2.50-2.99					13	21	1				35
3.00-3.49						9	4				13
3.50-3.99						3	2				8
4.00-4.49							1				2
4.50-4.99											0
5.00-5.49							1				1
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	346	1698	1627	1123	307	64	16	0	0	0	

MEAN HS(M) = 0.7 LARGEST HS(M)= 5.0 MEAN TP(SEC)= 3.9 NO. OF CASES= 4856.

STATION H53 44.18N 82.32W AZIMUTH(DEGREES) =180.0											
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	530	1982	1073	144	11						3740
0.50-0.99		858	2683	1789	129	7	1				5467
1.00-1.49			260	978	722	14					1974
1.50-1.99			3	378	634	125	2				1142
2.00-2.49				6	325	213	10				554
2.50-2.99					47	209	51				307
3.00-3.49						98	65				164
3.50-3.99						8	89	1			98
4.00-4.49							49				49
4.50-4.99							11	30			17
5.00-5.49							2	30			7
5.50-5.99								2			2
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	530	2840	4019	3295	1868	674	280	15	0	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 5.9 MEAN TP(SEC)= 4.5 NO. OF CASES= 12659.

STATION H53 44.18N 82.32W AZIMUTH(DEGREES) =202.5											
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	379	1467	371	127	11						2355
0.50-0.99		798	2095	469	64	2					3428
1.00-1.49			629	773	162	12	2				1578
1.50-1.99			3	574	483	52	5				1112
2.00-2.49				17	296	117	5				435
2.50-2.99					39	130	22				191
3.00-3.49					2	57	37				96
3.50-3.99						7	25				32
4.00-4.49						1	24				26
4.50-4.99							7	3			10
5.00-5.49							2	4			6
5.50-5.99								1			1
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	379	2265	3098	1960	1057	378	124	9	0	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.9 MEAN TP(SEC)= 4.3 NO. OF CASES= 8682.

STATION H53 44.18N 82.32W AZIMUTH(DEGREES) =225.0											
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	327	1320	331	120	12						2110
0.50-0.99		756	1702	256	73	17					2804
1.00-1.49			621	647	26	6					1300
1.50-1.99			3	609	114	3	1				730
2.00-2.49				14	223	8	1				246
2.50-2.99					63	14	1				78
3.00-3.49					6	19	4				29
3.50-3.99						18	1				19
4.00-4.49						1	4				5
4.50-4.99							1				1
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	327	2076	2657	1646	517	86	13	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 4.6 MEAN TP(SEC)= 4.0 NO. OF CASES= 6859.

STATION H53 44.18N 82.32W AZIMUTH(DEGREES) =247.5											
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	238	944	233	99	14						1528
0.50-0.99		552	1536	408	95	19	2				2612
1.00-1.49			357	761	65	16	7				1206
1.50-1.99			1	491	285	9	1				787
2.00-2.49				5	269	26	1				300
2.50-2.99					67	98	1				166
3.00-3.49						60	5				65
3.50-3.99						6	21				27
4.00-4.49						1	16				17
4.50-4.99							7				7
5.00-5.49							1	2			3
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	238	1496	2127	1764	795	235	61	2	0	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.2 MEAN TP(SEC)= 4.4 NO. OF CASES= 6295.

STATION H53 44.18N 82.32W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	189	946	284	93	9	1	.	.	.	.	1522
0.50-0.99	.	531	1553	602	168	25	3	.	.	.	2882
1.00-1.49	.	.	224	897	176	48	11	1	.	.	1357
1.50-1.99	.	.	2	363	585	23	8	.	.	.	981
2.00-2.49	.	.	.	6	469	109	3	.	.	.	587
2.50-2.99	74	235	20	1	.	.	315
3.00-3.49	126	65	.	.	.	146
3.50-3.99	14	27	.	.	.	79
4.00-4.49	5	2	.	.	27
4.50-4.99	2	.	.	2
5.00-5.49	1	.	.	1
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	189	1477	2063	1961	1481	581	147	7	0	0	7407.

MEAN HS(M) = 1.1 LARGEST HS(M)= 5.9 MEAN TP(SEC)= 4.7 NO. OF CASES= 7407.

STATION H53 44.18N 82.32W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	142	837	236	60	11	1	.	.	.	.	1287
0.50-0.99	.	470	1395	639	199	35	1	.	.	.	2739
1.00-1.49	.	1	192	764	234	102	25	.	.	.	1318
1.50-1.99	.	.	1	282	471	45	28	.	.	.	827
2.00-2.49	.	.	.	2	350	89	11	4	.	.	466
2.50-2.99	41	208	19	1	.	.	263
3.00-3.49	98	13	.	.	.	111
3.50-3.99	7	49	.	.	.	56
4.00-4.49	14	.	.	.	14
4.50-4.99	8	.	.	.	8
5.00-5.49	2	.	.	2
5.50-5.99	0
6.00-6.49	0
6.50-6.99	1	.	1
7.00+	0
TOTAL	142	1308	1824	1747	1306	595	158	10	2	0	6650.

MEAN HS(M) = 1.1 LARGEST HS(M)= 6.9 MEAN TP(SEC)= 4.7 NO. OF CASES= 6650.

STATION H53 44.18N 82.32W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	103	582	255	89	8	.	.	.	.	.	1037
0.50-0.99	.	457	1382	737	259	31	2	.	.	.	2868
1.00-1.49	.	.	175	878	404	190	18	.	.	.	1665
1.50-1.99	.	.	3	353	683	135	66	1	.	.	1241
2.00-2.49	.	.	.	3	439	238	47	2	.	.	729
2.50-2.99	54	333	48	5	.	.	440
3.00-3.49	1	179	78	4	.	.	262
3.50-3.99	5	130	4	.	.	139
4.00-4.49	53	4	.	.	57
4.50-4.99	13	9	1	.	23
5.00-5.49	1	11	.	.	12
5.50-5.99	3	.	.	3
6.00-6.49	2	1	.	3
6.50-6.99	0
7.00+	0
TOTAL	103	1039	1815	2060	1848	1111	456	45	2	0	7947.

MEAN HS(M) = 1.3 LARGEST HS(M)= 6.1 MEAN TP(SEC)= 5.2 NO. OF CASES= 7947.

STATION H53 44.18N 82.32W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	126	427	174	58	7	.	.	.	.	.	792
0.50-0.99	.	271	804	609	161	13	.	.	.	.	1858
1.00-1.49	.	.	86	504	397	93	1	.	.	.	1081
1.50-1.99	.	.	2	179	488	148	28	.	.	.	845
2.00-2.49	.	.	.	2	187	208	29	.	.	.	428
2.50-2.99	17	146	23	.	.	.	236
3.00-3.49	59	54	6	.	.	119
3.50-3.99	6	85	6	.	.	97
4.00-4.49	28	4	.	.	32
4.50-4.99	7	7	.	.	14
5.00-5.49	5	.	.	5
5.50-5.99	1	5	.	6
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	126	698	1066	1352	1257	673	305	29	5	0	5172.

MEAN HS(M) = 1.2 LARGEST HS(M)= 5.9 MEAN TP(SEC)= 5.2 NO. OF CASES= 5172.

STATION H53 44.18N 82.32W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

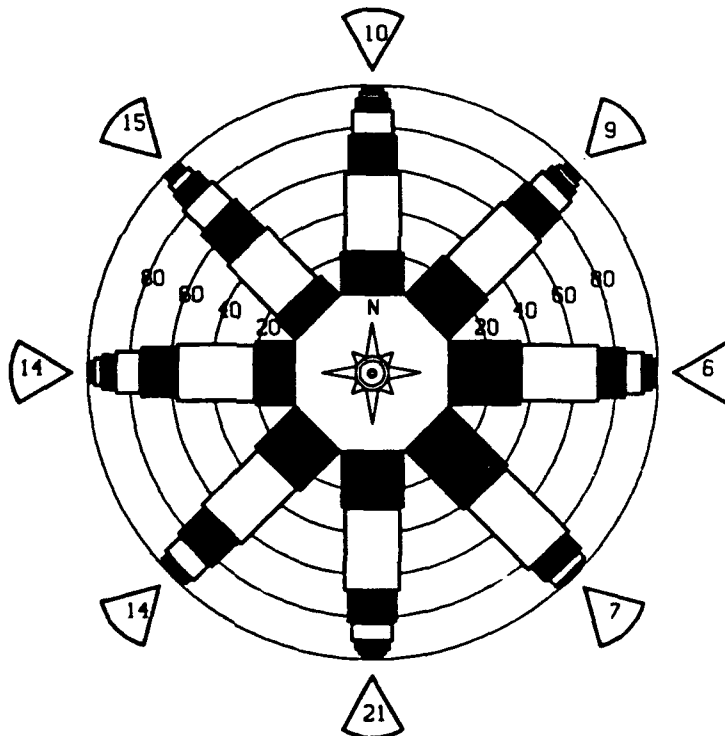
HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	394	1456	486	130	11						2477
0.50-0.99		781	1981	865	162	17	6				3807
1.00-1.49			337	898	323	75	14				1621
1.50-1.99			2	453	507	138	15				1051
2.00-2.49				6	342	180	29	1			501
2.50-2.99					57	102	38	1			267
3.00-3.49					1	10	62	1			132
3.50-3.99							30	1			73
4.00-4.49							9	3			31
4.50-4.99							1	4			12
5.00-5.49							1				5
5.50-5.99											1
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	394	2237	2806	2352	1403	569	205	12	0	0	

MEAN HS(M)= 1.0 LARGEST HS(M)= 6.9 MEAN TP(SEC)= 4.5 TOTAL CASES= 93504

STATION 53
44.18N, 82.32 W
93504 CASES



OVER 3.0 M
2.5-2.9 M
2.0-2.4 M
1.5-1.9 M
1.0-1.4 M
0.5-0.9 M
0.0-0.4 M



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H53 (44.18N 82.32W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	1.1	0.9	1.1	1.0	1.0	0.8	0.6	0.6	0.8	1.1	1.1	0.9	0.9
1957	1.1	1.0	1.1	1.0	0.9	0.8	0.6	0.6	0.7	1.0	1.4	1.4	0.9
1958	1.1	1.0	1.1	1.0	1.1	1.1	1.1	1.0	1.4	1.1	1.7	1.4	1.2
1959	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.4
1960	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.2
1961	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1962	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.0
1963	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.0
1964	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.2
1965	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1966	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1967	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1968	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1969	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1970	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1971	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1972	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1973	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1974	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1975	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1976	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1977	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1978	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1979	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1980	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1981	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1982	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1983	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1984	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1985	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1986	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
1987	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.1	1.4	1.5	1.6	1.7	1.1
MEAN	1.2	1.1	1.1	1.1	0.9	0.8	0.7	0.7	0.8	1.0	1.2	1.2	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H53 (44.18N 82.32W)

YEAR	MONTH												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1956	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1957	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1958	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1959	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1960	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1961	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1962	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1963	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1964	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1965	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1966	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1967	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1968	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1969	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1970	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1971	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1972	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1973	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1974	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1975	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1976	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1977	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1978	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1979	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1980	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1981	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1982	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1983	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1984	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1985	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1986	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	
1987	3.6	4.0	5.0	3.6	3.7	3.6	3.0	1.7	2.5	3.8	3.3	2.5	

32 YR. STATISTICS FOR WIS STATION H53

MEAN SIGNIFICANT WAVE HEIGHT	(METERS)	1.0
MEAN PEAK WAVE PERIOD	(SECONDS)	4.5
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND	(DEGREES)	180.0
STANDARD DEVIATION OF WAVE HS	(METERS)	0.7
STANDARD DEVIATION OF WAVE TP	(SECONDS)	1.4
LARGEST WAVE HS	(METERS)	6.9
WAVE TP ASSOCIATED WITH LARGEST WAVE HS	(SECONDS)	10.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS	(DEGREES)	294.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)		79040615

STATION H54 44.77N 82.32W AZIMUTH(DEGREES) = 0.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	96	671	133	12	28	.	.	.	.	.	912
0.50-0.99	.	349	1051	613	260	19	.	.	.	.	2042
1.00-1.49	.	.	86	544	321	45	.	.	.	.	909
1.50-1.99	.	.	.	187	212	23	4	.	.	.	553
2.00-2.49	.	.	.	1	25	91	5	.	.	.	240
2.50-2.99	33	2	.	.	.	121
3.00-3.49	3	9	.	.	.	35
3.50-3.99	3	.	.	.	12
4.00-4.49	3
4.50-4.99	1	.	.	0
5.00-5.49	1
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	96	1020	1270	1357	847	214	23	1	0	0	4528.

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.1 MEAN TP(SEC)= 4.5 NO. OF CASES= 4528.

STATION H54 44.77N 82.32W AZIMUTH(DEGREES) = 22.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	135	629	118	13	1	.	.	.	.	.	896
0.50-0.99	.	361	1039	371	20	.	.	.	.	.	1791
1.00-1.49	.	.	121	434	85	4	.	.	.	.	644
1.50-1.99	.	.	.	274	238	3	.	.	.	.	515
2.00-2.49	.	.	.	1	185	9	1	.	.	.	196
2.50-2.99	37	37	.	.	.	.	74
3.00-3.49	17	.	.	.	.	17
3.50-3.99	6	.	.	.	6
4.00-4.49	1	.	.	.	1
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	135	990	1278	1093	566	70	8	0	0	0	3881.

MEAN HS(M) = 0.9 LARGEST HS(M)= 4.0 MEAN TP(SEC)= 4.3 NO. OF CASES= 3881.

STATION H54 44.77N 82.32W AZIMUTH(DEGREES) = 45.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	165	826	142	10	.	.	.	.	.	.	1143
0.50-0.99	.	451	1131	309	13	1	.	.	.	.	1905
1.00-1.49	.	.	168	550	22	.	.	.	.	.	740
1.50-1.99	.	.	1	402	150	1	.	.	.	.	554
2.00-2.49	.	.	.	6	279	2	.	.	.	.	287
2.50-2.99	85	44	.	.	.	.	129
3.00-3.49	41	.	.	.	.	41
3.50-3.99	21	1	.	.	.	22
4.00-4.49	1	10	.	.	.	11
4.50-4.99	1	.	.	.	1
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	165	1277	1442	1277	549	111	12	0	0	0	4530.

MEAN HS(M) = 1.0 LARGEST HS(M)= 4.6 MEAN TP(SEC)= 4.2 NO. OF CASES= 4530.

STATION H54 44.77N 82.32W AZIMUTH(DEGREES) = 67.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	173	724	87	4	.	.	.	.	.	.	988
0.50-0.99	.	360	816	201	.	.	.	.	.	.	1377
1.00-1.49	.	1	140	407	37	.	.	.	.	.	585
1.50-1.99	.	.	.	271	178	.	.	.	.	.	449
2.00-2.49	.	.	.	1	213	4	.	.	.	.	218
2.50-2.99	59	66	.	.	.	.	125
3.00-3.49	48	2	.	.	.	50
3.50-3.99	9	8	.	.	.	17
4.00-4.49	11	.	.	.	11
4.50-4.99	0
5.00-5.49	1	.	.	.	1
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	173	1085	1043	884	487	127	22	0	0	0	3581.

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.0 MEAN TP(SEC)= 4.2 NO. OF CASES= 3581.

STATION H54 44.77N 82.32W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PERCENT OCCURRENCE (HOURS PER YEAR)										TOTAL
	PEAK PERIOD (SECONDS)										
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	251	888	101	8							1248
0.50-0.99		341	742	185	4						1272
1.00-1.49			101	343	39	1					484
1.50-1.99				183	176						359
2.00-2.49					161	11					172
2.50-2.99					29	71	1				101
3.00-3.49						38					39
3.50-3.99						2					14
4.00-4.49							12				1
4.50-4.99							14				2
5.00-5.49							2				0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	251	1229	944	719	409	123	31	0	0	0	
MEAN HS(M) = 0.9	LARGEST HS(M) = 5.4		MEAN TP(SEC) = 4.1		NO. OF CASES = 3476.						

STATION H54 44.77N 82.32W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	271	666	68	5	.	.	.	.	.	.	1010
0.50-0.99	.	316	602	116	.	.	.	.	.	.	1034
1.00-1.49	.	.	78	303	29	.	.	.	.	.	410
1.50-1.99	.	.	.	156	160	.	.	.	.	.	318
2.00-2.49	.	.	.	1	141	2	.	.	.	.	156
2.50-2.99	18	14	.	.	.	.	84
3.00-3.49	66	.	.	.	.	34
3.50-3.99	29	.	.	.	.	34
4.00-4.49	4	.	.	.	.	14
4.50-4.99	100	.	.	.	5
5.00-5.49	20	.	.	.	2
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	271	982	748	581	348	115	22	0	0	0	2877.
MEAN HS(M) = 0.9	LARGEST HS(M) =		4.7	MEAN TP(SEC) =		4.1	NO. OF CASES =		2877.		

STATION H54 44.77N 82.32W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0- LONGER	
0.00-0.49	303	900	112	21							1336
0.50-0.99		363	826	218	2						1409
1.00-1.49			90	348	31	1					470
1.50-1.99				88	120	1					209
2.00-2.49					57	4					61
2.50-2.99					4	22					26
3.00-3.49						3					3
3.50-3.99							1				1
4.00-4.49							1				0
4.50-4.99											0
5.00-5.49											0
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	303	1263	1028	675	214	31	2	0	0	0	3296
MEAN HS (M) = 0.7	LARGEST HS (M) =		4.1	MEAN TP (SEC) =		3.8	NO. OF CASES =		3296		

STATION H54 44.77N 82.32W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	308	1165	256	25	1						1755
0.50-0.99		562	1075	479	53	2					2171
1.00-1.49			133	439	162	11	2				747
1.50-1.99			1	170	197	31	2				401
2.00-2.49					88	28	7				123
2.50-2.99					17	26	14				50
3.00-3.49						12	2				14
3.50-3.99						4	11				15
4.00-4.49							4				5
4.50-4.99							1	2			3
5.00-5.49								1			1
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	308	1727	1465	1113	518	114	36	5	0	0	
MEAN HS(M) = 0.8	LARGEST HS(M)=		5.5	MEAN TP(SEC)=		4.1	NO. OF CASFS=		4956.		

STATION H54 44.77N 82.32W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	367	1605	1023	149	1	.	.	.	.	.	3145
0.50-0.99	.	714	1951	1902	240	1	.	.	.	.	4808
1.00-1.49	.	.	266	762	784	77	1	.	.	.	1890
1.50-1.99	.	.	4	346	449	219	7	.	.	.	1025
2.00-2.49	.	.	.	5	247	160	43	.	.	.	452
2.50-2.99	48	131	83	1	.	.	263
3.00-3.49	67	58	109	.	.	134
3.50-3.99	5	28	5	1	.	36
4.00-4.49	5	18	3	.	24
4.50-4.99	3	2	1	12
5.00-5.49	3	.	6
5.50-5.99	1	.	1
6.00-6.49	2	.	2
6.50-6.99	0
TOTAL	367	2319	3244	3164	1769	660	303	55	13	1	11139.
MEAN HS(M) = 0.9	LARGEST HS(M)=		6.5	MEAN TP(SEC)=		4.6	NO. OF CASES=		11139.		

MEAN HS(M) = 0.9 LARGEST HS(M)= 6.5 MEAN TP(SEC)= 4.6 NO. OF CASES= 11139.

STATION H54 44.77N 82.32W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	325	1475	765	115	3						2683
0.50-0.99	.	855	2098	1290	69	2	.	.	.	.	4314
1.00-1.49	.	.	345	1114	587	21	.	.	.	.	2067
1.50-1.99	.	.	2	448	716	150	.	.	.	.	1320
2.00-2.49	.	.	.	2	375	263	36	.	.	.	676
2.50-2.99	38	241	78	.	.	.	358
3.00-3.49	103	79	3	.	.	185
3.50-3.99	7	85	4	.	.	96
4.00-4.49	38	10	1	.	49
4.50-4.99	3	17	.	.	20
5.00-5.49	14	2	.	16
5.50-5.99	1	1	1	3
6.00-6.49	1	3	.	4
6.50-6.99	0
7.00+	0
TOTAL	325	2330	3210	2969	1788	787	323	51	7	1	

MEAN HS(M) = 1.0 LARGEST HS(M)= 6.2 MEAN TP(SEC)= 4.6 NO. OF CASES= 11040.

STATION H54 4.77N 82.32W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	252	1326	443	69	1						2091
0.50-0.99		625	1793	942	56	2					3418
1.00-1.49			279	899	428	4					1610
1.50-1.99			4	319	638	133					1094
2.00-2.49				4	274	293	25				566
2.50-2.99					36	219	77				322
3.00-3.49					1	67	82				153
3.50-3.99						4	85				92
4.00-4.49							45				47
4.50-4.99							13				34
5.00-5.49							1				18
5.50-5.99											10
6.00-6.49											8
6.50-6.99											3
7.00+											0
TOTAL	252	1951	2519	2233	1434	722	328	51	16	0	

MEAN HS(M) = 1.1 LARGEST HS(M)= 6.9 MEAN TP(SEC)= 4.7 NO. OF CASES= 8904.

STATION H54 44.77N 62.32W AZIMUTH(DEGREES) =247.
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	166	834	265	66	.	.	.	.	.	.	1331
0.50-0.99	.	464	1101	438	48	.	.	.	.	.	2051
1.00-1.49	.	.	180	639	151	5	.	.	.	.	975
1.50-1.99	.	.	2	297	388	31	.	.	.	.	718
2.00-2.49	.	.	.	1	279	78	6	.	.	.	364
2.50-2.99	51	126	22	.	.	.	189
3.00-3.49	64	27	1	.	.	82
3.50-3.99	7	25	2	.	.	34
4.00-4.49	22	.	.	.	22
4.50-4.99	4	.	1	.	8
5.00-5.49	6	.	.	7
5.50-5.99	3	.	3
6.00-6.49	1	.	1
6.50-6.99	1
7.00+	0
TOTAL	166	1298	1548	1441	917	311	106	13	6	0	

MEAN HS(M) = 1.1 LARGEST HS(M)= 6.5 MEAN TP(SEC)= 4.5 NO. OF CASES= 5440.

STATION H54 44.77N 82.32W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	147	776	290	49	1	.	.	.	.	.	1263
0.50-0.99	.	378	1040	586	85	1	.	.	.	.	2090
1.00-1.49	.	.	174	545	109	18	1	.	.	.	847
1.50-1.99	.	.	.	285	283	5	1	.	.	.	574
2.00-2.49	.	.	.	3	306	13	.	.	.	.	322
2.50-2.99	53	89	1	.	.	.	152
3.00-3.49	68	.	.	.	.	69
3.50-3.99	10	14	.	.	.	24
4.00-4.49	1	.	.	.	4
4.50-4.99	1
5.00-5.49	0
5.50-5.99	1	.	.	.	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	147	1154	1504	1468	837	214	23	0	0	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.5 MEAN TP(SEC)= 4.5 NO. OF CASES= 5011.

STATION H54 44.77N 82.32W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	125	898	312	42	.	.	.	.	.	.	1377
0.50-0.99	.	507	1393	794	137	3	.	.	.	.	2834
1.00-1.49	.	.	190	746	314	38	.	.	.	.	1288
1.50-1.99	.	.	2	364	321	41	.	.	.	.	734
2.00-2.49	.	.	.	3	365	34	6	.	.	.	408
2.50-2.99	71	154	12	.	.	.	237
3.00-3.49	63	22	.	.	.	75
3.50-3.99	9	21	.	.	.	30
4.00-4.49	4	.	.	.	4
4.50-4.99	2	.	.	.	2
5.00-5.49	1	.	.	1
5.50-5.99	1	.	.	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	125	1405	1897	1949	1208	342	63	2	0	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.7 MEAN TP(SEC)= 4.6 NO. OF CASES= 6551.

STATION H54 44.77N 82.32W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	73	746	296	57	1	.	.	.	.	.	1173
0.50-0.99	.	445	1685	1221	196	3	.	.	.	.	3550
1.00-1.49	.	.	165	900	893	114	2	.	.	.	2074
1.50-1.99	.	.	1	362	673	387	17	.	.	.	1440
2.00-2.49	.	.	.	5	356	324	119	.	.	.	804
2.50-2.99	55	298	155	3	.	.	511
3.00-3.49	2	116	114	9	.	.	241
3.50-3.99	4	164	5	1	.	174
4.00-4.49	89	.	.	.	106
4.50-4.99	10	17	.	.	39
5.00-5.49	26	2	.	28
5.50-5.99	2	9	.	11
6.00-6.49	5	.	5
6.50-6.99	1	.	1
7.00+	2
TOTAL	73	1191	2147	2545	2176	1246	670	91	18	2	

MEAN HS(M) = 1.3 LARGEST HS(M)= 7.3 MEAN TP(SEC)= 5.2 NO. OF CASES= 9517.

STATION H54 44.77N 82.32W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

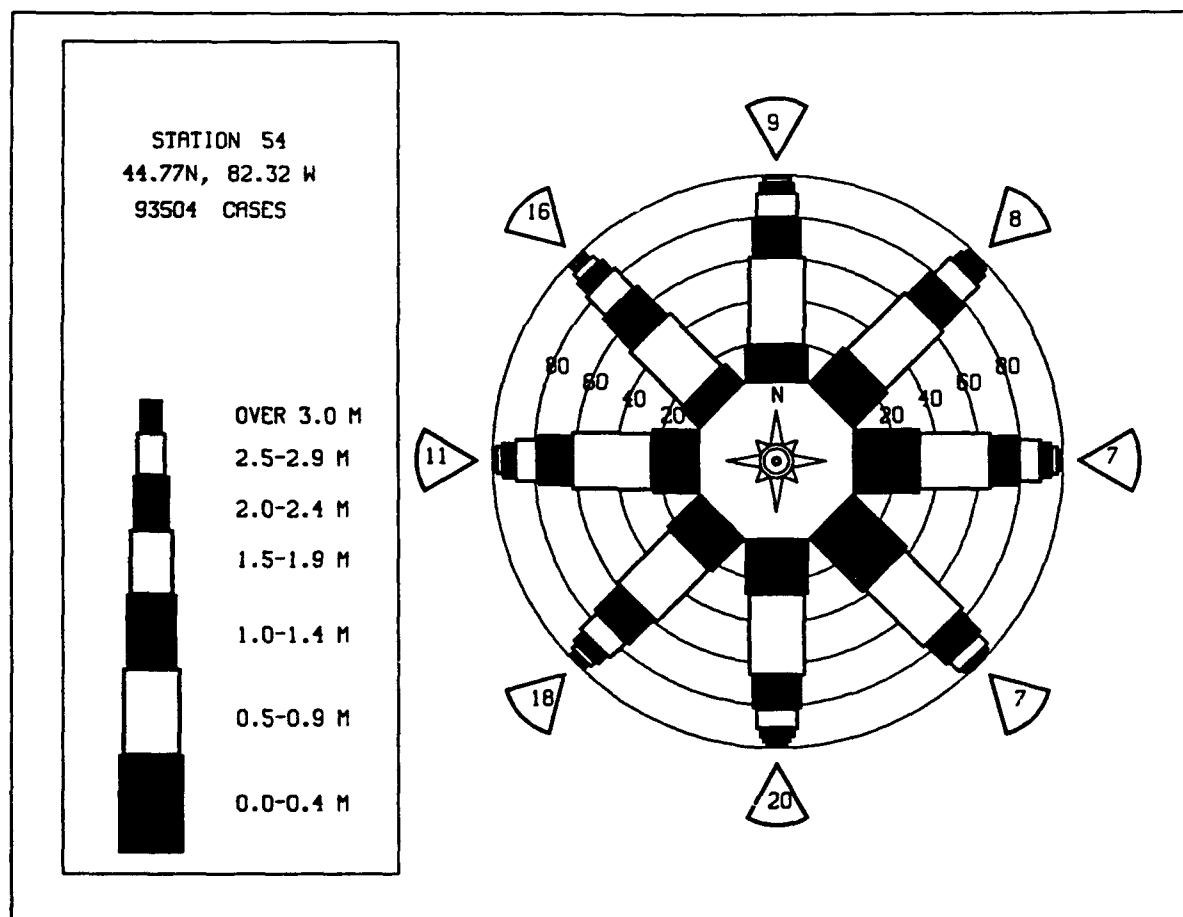
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	57	386	122	9	.	.	.	.	.	.	584
0.50-0.99	.	284	1015	689	58	.	.	.	.	.	2056
1.00-1.49	.	.	87	531	426	22	.	.	.	.	1066
1.50-1.99	.	.	.	173	385	126	2	.	.	.	686
2.00-2.49	182	104	41	.	.	.	327
2.50-2.99	24	115	62	.	.	.	201
3.00-3.49	37	38	6	.	.	81
3.50-3.99	1	58	.	.	.	59
4.00-4.49	14	.	.	.	18
4.50-4.99	3	3	1	.	8
5.00-5.49	3	.	.	3
5.50-5.99	1	2	.	3
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	57	690	1224	1402	1075	405	218	16	5	0	

MEAN HS(M) = 1.2 LARGEST HS(M)= 5.8 MEAN TP(SEC)= 5.0 NO. OF CASES= 4777.

STATION H54 44.77N 82.32W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	322	1453	454	66							2295
0.50-0.99		739	1936	1035	101	1					3812
1.00-1.49			261	951	436	33					1681
1.50-1.99			1	433	540	117	4				1095
2.00-2.49				3	372	137	29				541
2.50-2.99					65	181	50				296
3.00-3.49						81	42	3			126
3.50-3.99						9	59	2			70
4.00-4.49							30	3			33
4.50-4.99							4	8			13
5.00-5.49								1			8
5.50-5.99									2		3
6.00-6.49									1		1
6.50-6.99											0
7.00+											0
TOTAL	322	2192	2652	2488	1514	559	218	26	3	0	

MEAN HS(M)= 1.0 LARGEST HS(M)= 7.3 MEAN TP(SEC)= 4.5 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR
WIS STATION H54 (44.77N 82.32W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
YEAR													
1956	1.0	1.0	1.1	1.1	1.1	0.8	0.6	0.6	0.8	1.2	1.2	1.1	1.0
1957	1.1	1.1	1.0	1.1	1.1	0.9	0.6	0.6	0.8	1.1	1.1	1.1	1.0
1958	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1959	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1960	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1961	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1962	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1963	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1964	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1965	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1966	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1967	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1968	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1969	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1970	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1971	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1972	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1973	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1974	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1975	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1976	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1977	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1978	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1979	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1980	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1981	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1982	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1983	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1984	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1985	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1986	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1987	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
MEAN	1.2	1.1	1.1	1.1	0.9	0.8	0.7	0.7	0.9	1.0	1.2	1.2	

LARGEST HS(METERS) BY MONTH AND YEAR
WIS STATION H54 (44.77N 82.32W)

	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
YEAR													
1956	3.2	5.4	4.6	4.1	3.8	3.6	2.1	1.8	2.6	4.2	3.6	3.1	
1957	3.5	5.4	4.6	4.1	3.8	3.6	2.1	1.8	2.6	4.2	3.6	3.1	
1958	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1959	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1960	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1961	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1962	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1963	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1964	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1965	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1966	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1967	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1968	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1969	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1970	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1971	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1972	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1973	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1974	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1975	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1976	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1977	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1978	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1979	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1980	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1981	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1982	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1983	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1984	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1985	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1986	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	
1987	4.3	6.2	5.5	4.5	3.8	3.5	3.3	4.1	4.8	4.4	4.3	4.3	

32 YR. STATISTICS FOR WIS STATION H54

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	1.0
MEAN PEAK WAVE PERIOD (SECONDS)	4.5
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	180.0
STANDARD DEVIATION OF WAVE HS (METERS)	0.8
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.4
LARGEST WAVE HS (METERS)	7.3
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	11.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	310.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	63040418

STATION H55 45.20N 82.71W		AZIMUTH(DEGREES) = 67.5									
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION											
HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	125	468	31	2							62
0.50-0.99		363	819	135	1						131
1.00-1.49			160	432	29	1					62
1.50-1.99				293	233	4					53
2.00-2.49					219	7					22
2.50-2.99					47	85					13
3.00-3.49						45					4
3.50-3.99						9					1
4.00-4.49							12				1
4.50-4.99							2				
5.00-5.49							1				
5.50-5.99											
6.00-6.49											
6.50-6.99											
7.00+											
TOTAL	125	831	1010	862	529	151	20	0	0	0	
MEAN HS(M) = 1.1	LARGEST HS(M)=		5.1		MEAN TP(SEC)=		4.4		NO. OF CASES=		3307

STATION H55 45.20N 82.71W AZIMUTH(DEGREES) = 90.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	161	558	34	3							756
0.50-0.99		348	659	180	3						1190
1.00-1.49			144	373	38						535
1.50-1.99				199	175	5					379
2.00-2.49				2	149	10					161
2.50-2.99					21	95	3				118
3.00-3.49						47	1				48
3.50-3.99						7	10				17
4.00-4.49							9	1			10
4.50-4.99							1				0
5.00-5.49											0
5.50-5.99								2			2
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	161	906	837	757	386	164	24	3	0	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.8 MEAN TP(SEC)= 4.3 NO. OF CASES= 3038.

STATION H55 45.20N 82.71W AZIMUTH(DEGREES) =112.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	253	574	42								869
0.50-0.99		336	634	142	1						1113
1.00-1.49			105	367	58						530
1.50-1.99				131	276	7					414
2.00-2.49					161	44	1				206
2.50-2.99					18	104	7				129
3.00-3.49						53	20				73
3.50-3.99							32				32
4.00-4.49							13	1			14
4.50-4.99							6				6
5.00-5.49								4			4
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	253	910	781	640	514	208	79	5	0	0	

MEAN HS(M) = 1.1 LARGEST HS(M)= 5.3 MEAN TP(SEC)= 4.4 NO. OF CASES= 3182.

STATION H55 45.20N 82.71W AZIMUTH(DEGREES) =135.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	355	940	130	12	1						1438
0.50-0.99		480	913	364	11						1768
1.00-1.49			142	404	161	2					709
1.50-1.99				135	210	20	1				366
2.00-2.49				1	69	51	3				124
2.50-2.99					5	80	7				92
3.00-3.49						23	20				43
3.50-3.99						1	11				12
4.00-4.49							3				3
4.50-4.99								1			1
5.00-5.49									1		1
5.50-5.99											0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	355	1420	1185	916	457	177	45	1	1	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 5.1 MEAN TP(SEC)= 4.1 NO. OF CASES= 4271.

STATION H55 45.20N 82.71W AZIMUTH(DEGREES) =157.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	445	1490	409	163	22	1					2530
0.50-0.99		695	1315	863	241	29	4				3147
1.00-1.49			191	471	284	85	8				1039
1.50-1.99			1	204	225	63	20				513
2.00-2.49					126	51	10	1			188
2.50-2.99					13	52	7		1		73
3.00-3.49					2	25	8	3			38
3.50-3.99						1	17		1		18
4.00-4.49							12				13
4.50-4.99							1				2
5.00-5.49								1		1	2
5.50-5.99									1		2
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	445	2185	1916	1701	913	307	88	6	3	1	

MEAN HS(M) = 0.8 LARGEST HS(M)= 5.5 MEAN TP(SEC)= 4.2 NO. OF CASES= 7089.

STATION H55 45.20N 82.71W AZIMUTH(DEGREES) =180.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49				131	20						3375
0.50-0.99	514	1914	796	1375	249	26					4545
1.00-1.49		887	2008	830	619	99					1897
1.50-1.99			327	406	470	142	24				1048
2.00-2.49			5	10	270	127	31				439
2.50-2.99					48	140	37	1			229
3.00-3.49						65	41	4	1		108
3.50-3.99						6	67	5	2		33
4.00-4.49							32	1			7
4.50-4.99								2			4
5.00-5.49							2		1		2
5.50-5.99								2			0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	514	2801	3136	2752	1676	605	261	18	4	0	
MEAN HS(M) = 0.9	LARGEST HS(M) = 5.8		MEAN TP(SEC) = 4.4		NO. OF CASES = 11017.						

MEAN HS(M) = 0.9 LARGEST HS(M)= 5.8 MEAN TP(SEC)= 4.4 NO. OF CASES= 11017.

STATION H55 45.20N 82.71W AZIMUTH(DEGREES) =202.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	383	1778	618	113	17						2910
0.50-0.99		962	1902	1113	377	23					4377
1.00-1.49			454	810	558	181	11				2114
1.50-1.99				647	426	270	32				1380
2.00-2.49			4	35	330	160	60				585
2.50-2.99					74	101	62	6			243
3.00-3.49					5	72	36	3	2		118
3.50-3.99						11	48	3	3		66
4.00-4.49							24	4	1		28
4.50-4.99							8	5			13
5.00-5.49								4	1		5
5.50-5.99								1	4		5
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	383	2740	2979	2818	1787	818	281	27	11	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.8 MEAN TP(SEC)= 4.6 NO. OF CASES= 11092.

STATION H55 45.20N 82.71W AZIMUTH(DEGREES) =225.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	344	1210	142	17							1713
0.50-0.99		777	1222	207	36	8					2250
1.00-1.49			410	463	54	27					956
1.50-1.99			7	491	91	34					632
2.00-2.49				24	183	17					249
2.50-2.99					66	26		2			102
3.00-3.49					2	32		3	1		42
3.50-3.99						12		1			20
4.00-4.49						2		6			8
4.50-4.99											1
5.00-5.49								1			1
5.50-5.99								1			0
6.00-6.49											0
6.50-6.99											0
7.00+											0
TOTAL	344	1987	1781	1202	432	158	60	9	1	0	

MEAN HS(M) = 0.9 LARGEST HS(M)= 5.2 MEAN TP(SEC)= 4.0 NO. OF CASES= 5601.

STATION H55 45.20N 82.71W AZIMUTH(DEGREES) =247.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	263	874	101	4							1242
0.50-0.99	.	540	775	88	12	1	.	.	.	.	1416
1.00-1.49	.	.	327	264	11	6	1	.	.	.	609
1.50-1.99	.	.	2	315	24	2	.	.	.	.	343
2.00-2.49	.	.	.	13	98	2	1	.	.	.	114
2.50-2.99	36	3	.	.	.	.	39
3.00-3.49	3	3	.	.	.	.	8
3.50-3.99	4	.	.	.	.	4
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	263	1414	1205	684	184	23	2	0	0	0	

MEAN HS(M) = 0.8 LARGEST HS(M)= 3.6 MEAN TP(SEC)= 3.8 NO. OF CASES= 3539.

STATION H55 45.20N 82.71W AZIMUTH(DEGREES) =270.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	300	1070	146	9							1525
0.50-0.99	.	564	832	125	3	.	.	.	.	.	1524
1.00-1.49	.	.	392	297	18	1	.	.	.	.	708
1.50-1.99	.	.	.	412	24	3	2	.	.	.	441
2.00-2.49	.	.	.	17	145			.	.	.	162
2.50-2.99	.	.	.		33			.	.	.	33
3.00-3.49	.	.	.		7	10		.	.	.	17
3.50-3.99	0
4.00-4.49	0
4.50-4.99	0
5.00-5.49	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	300	1634	1370	860	230	14	2	0	0	0	
MEAN HS(M) = 0.8	LARGEST HS(M)=		3.4	MEAN TP(SEC)=		3.8	NO. OF CASES=		4131.		

MEAN HS(M) = 0.8 LARGEST HS(M)= 3.4 MEAN TP(SEC)= 3.8 NO. OF CASES= 4131.

STATION H55 45.20N 82.71W AZIMUTH(DEGREES) =292.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	185	1316	366	33							1900
0.50-0.99		756	1868	522	31	.	.	.	.	.	3177
1.00-1.49			647	691	220	7	.	.	.	.	1565
1.50-1.99			6	670	265	49	.	.	.	.	990
2.00-2.49				44	410	89	.	.	.	.	548
2.50-2.99					113	106	5	.	.	.	224
3.00-3.49					5	79	25	.	.	.	109
3.50-3.99						8	31	.	.	.	39
4.00-4.49							16	1	.	.	18
4.50-4.99						1	9	1	.	.	10
5.00-5.49								1	.	.	1
5.50-5.99									.	.	0
6.00-6.49									.	.	0
6.50-6.99									.	.	0
7.00+									.	.	0
TOTAL	185	2072	2887	1960	1044	339	91	4	0	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 5.5 MEAN TP(SEC)= 4.4 NO. OF CASES= 8037.

STATION H55 45.20N 82.71W AZIMUTH(DEGREES) =315.0
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0- 3.9	4.0- 4.9	5.0- 5.9	6.0- 6.9	7.0- 7.9	8.0- 8.9	9.0- 9.9	10.0- 10.9	11.0- LONGER	
0.00-0.49	135	1158	517	56							1866
0.50-0.99	.	685	2520	1567	80	.	.	.	.	.	4852
1.00-1.49	.	.	259	1318	734	9	.	.	.	.	2320
1.50-1.99	.	.	4	512	993	174	.	.	.	.	1683
2.00-2.49	.	.	.	7	517	341	5	.	.	.	870
2.50-2.99	86	443	21	.	.	.	550
3.00-3.49	1	234	71	.	.	.	306
3.50-3.99	8	119	.	.	.	127
4.00-4.49	44	.	.	.	43
4.50-4.99	23	.	.	.	23
5.00-5.49	1	.	.	.	6
5.50-5.99	1	.	.	1
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	135	1843	3300	3460	2411	1209	284	11	0	0	

MEAN HS(M) = 1.2 LARGEST HS(M)= 6.1 MEAN TP(SEC)= 4.9 NO. OF CASES= 11847.

STATION H55 45.20N 82.71W AZIMUTH(DEGREES) =337.5
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

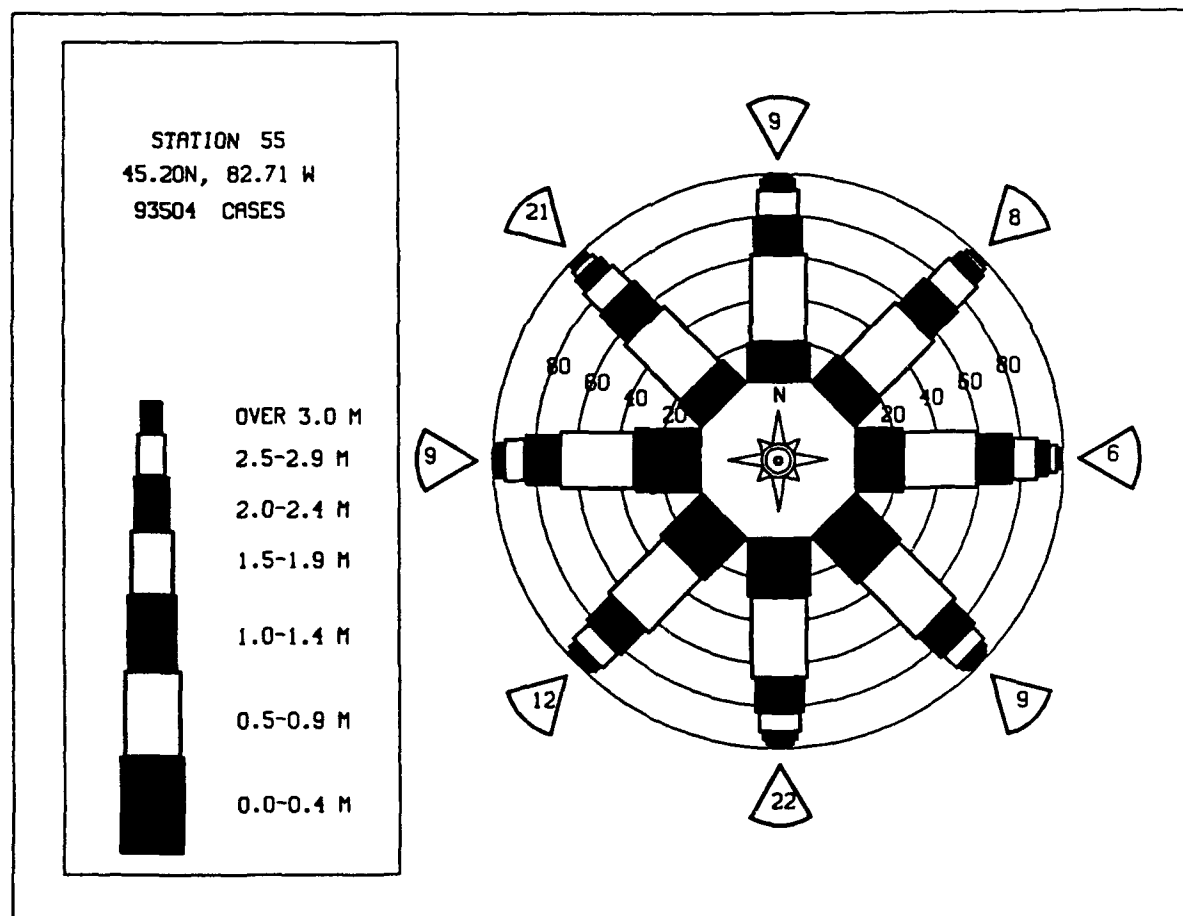
HEIGHT (METRES)	PEAK PERIOD (SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	103	648	68	1							820
0.50-0.99	.	404	1309	430	2	.	.	.	.	.	2145
1.00-1.49	.	.	124	649	202	.	.	.	.	.	975
1.50-1.99	.	.	.	291	382	24	.	.	.	.	698
2.00-2.49	.	.	.	2	233	63	.	.	.	.	298
2.50-2.99	35	112	.	.	.	.	152
3.00-3.49	51	.	.	.	.	63
3.50-3.99	12	.	.	.	20
4.00-4.49	20	.	.	.	6
4.50-4.99	9	.	.	.	6
5.00-5.49	2	.	.	.	0
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	103	1052	1502	1373	854	250	45	0	0	0	

MEAN HS(M) = 1.0 LARGEST HS(M)= 4.9 MEAN TP(SEC)= 4.5 NO. OF CASES= 4851

STATION H55 45.20N 82.71W FOR ALL DIRECTIONS
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PEAK PERIOD(SECONDS)										TOTAL
	<3.0	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0.00-0.49	404	1593	356	55	6	.	.	.	.	.	2414
0.50-0.99	.	913	2011	787	105	8	.	.	.	.	3824
1.00-1.49	.	.	413	925	310	42	4	.	.	.	1694
1.50-1.99	.	.	3	584	447	81	8	.	.	.	1123
2.00-2.49	.	.	.	16	365	99	14	.	.	.	494
2.50-2.99	76	147	17	1	.	.	241
3.00-3.49	2	84	24	1	.	.	111
3.50-3.99	10	38	1	.	.	49
4.00-4.49	19	.	.	.	19
4.50-4.99	6	1	.	.	7
5.00-5.49	1	.	.	1
5.50-5.99	0
6.00-6.49	0
6.50-6.99	0
7.00+	0
TOTAL	404	2506	2783	2367	1311	471	130	5	0	0	93504

MEAN HS(M)= 1.0 LARGEST HS(M)= 6.9 MEAN TP(SEC)= 4.4 TOTAL CASES= 93504.



MEAN HS(METERS) BY MONTH AND YEAR

WIS STATION H55 (45.20N 82.71W)

MONTH

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
YEAR													
1956	1.0	1.0	1.2	1.1	1.1	0.8	0.6	0.6	0.8	1.2	1.2	1.0	1.0
1957	1.1	1.1	1.1	1.1	1.1	1.0	0.7	0.7	0.9	1.1	1.1	1.1	1.1
1958	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1959	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1960	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1961	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1962	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1963	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1964	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1965	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1966	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1967	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1968	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1969	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1970	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1971	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1972	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1973	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1974	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1975	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1976	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1977	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1978	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1979	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1980	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1981	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1982	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1983	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1984	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1985	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1986	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1987	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
MEAN	1.1	1.1	1.1	1.1	0.9	0.8	0.7	0.7	0.8	1.0	1.1	1.1	

LARGEST HS(METERS) BY MONTH AND YEAR

WIS STATION H55 (45.20N 82.71W)

MONTH

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
YEAR												
1956	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1957	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1958	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1959	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1960	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1961	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1962	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1963	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1964	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1965	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1966	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1967	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1968	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1969	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1970	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1971	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1972	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1973	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1974	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1975	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1976	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1977	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1978	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1979	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1980	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1981	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1982	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1983	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1984	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1985	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1986	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1987	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1

32 YR. STATISTICS FOR WIS STATION H55

MEAN SIGNIFICANT WAVE HEIGHT (METERS)	1.0
MEAN PEAK WAVE PERIOD (SECONDS)	4.4
MOST FREQUENT 22.5 DEGREE (CENTER) DIRECTION BAND . . (DEGREES)	315.0
STANDARD DEVIATION OF WAVE HS (METERS)	0.7
STANDARD DEVIATION OF WAVE TP (SECONDS)	1.3
LARGEST WAVE HS (METERS)	6.9
WAVE TP ASSOCIATED WITH LARGEST WAVE HS (SECONDS)	10.0
AVERAGE DIRECTION ASSOCIATED WITH LARGEST WAVE HS . . (DEGREES)	49.0
DATE OF LARGEST HS OCCURRENCE IS (YR,MO,DA,HR)	56030712

APPENDIX B: RETURN PERIOD TABLES

Station 1 (43.05N , 82.32W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	4.3(0.08)	7.1(0.14)	4.0(0.09)	7.1(0.14)
5.00	4.6(0.11)	7.7(0.19)	4.4(0.13)	7.7(0.19)
10.00	4.9(0.13)	8.1(0.23)	4.7(0.16)	8.1(0.23)
20.00	5.1(0.15)	8.5(0.28)	4.9(0.18)	8.5(0.28)
50.00	5.4(0.19)	9.1(0.33)	5.3(0.22)	9.1(0.33)

Station 2 (43.18N , 82.32W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	3.4(0.06)	3.8(0.08)	6.6(0.12)	6.6(0.12)
5.00	3.7(0.08)	4.1(0.12)	7.1(0.17)	7.1(0.17)
10.00	3.9(0.10)	4.4(0.14)	7.5(0.21)	7.5(0.21)
20.00	4.0(0.11)	4.7(0.17)	7.9(0.25)	7.9(0.25)
50.00	4.3(0.14)	5.0(0.20)	8.4(0.30)	8.4(0.30)

Station 3 (43.33N , 82.32W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	3.7(0.07)	3.4(0.08)	6.2(0.12)	6.2(0.12)
5.00	4.0(0.09)	3.8(0.11)	6.7(0.16)	6.7(0.16)
10.00	4.2(0.11)	4.0(0.13)	7.0(0.20)	7.0(0.20)
20.00	4.4(0.14)	4.2(0.15)	7.4(0.24)	7.4(0.24)
50.00	4.7(0.16)	4.6(0.19)	7.9(0.29)	7.9(0.28)

Station 4 (43.47N , 82.52W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	3.3(0.06)	4.3(0.09)	6.0(0.11)	6.0(0.11)
5.00	3.5(0.08)	4.7(0.12)	6.5(0.15)	6.5(0.15)
10.00	3.7(0.10)	5.0(0.15)	6.9(0.19)	6.8(0.18)
20.00	3.9(0.12)	5.2(0.18)	7.2(0.22)	7.2(0.22)
50.00	4.1(0.14)	5.6(0.21)	7.7(0.27)	7.6(0.26)

Station 5 (43.62N , 82.52W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	3.2(0.05)	3.8(0.09)	5.9(0.10)	5.9(0.10)
5.00	3.4(0.07)	4.2(0.12)	6.3(0.14)	6.3(0.14)
10.00	3.6(0.09)	4.4(0.15)	6.7(0.18)	6.7(0.17)
20.00	3.7(0.10)	4.7(0.17)	7.0(0.21)	7.0(0.21)
50.00	4.0(0.12)	5.1(0.21)	7.4(0.25)	7.4(0.25)

Station 6 (43.75N , 82.52W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	3.5(0.06)	4.1(0.09)	5.9(0.10)	5.9(0.10)
5.00	3.8(0.08)	4.5(0.13)	6.3(0.14)	6.3(0.13)
10.00	4.0(0.10)	4.8(0.16)	6.6(0.17)	6.6(0.16)
20.00	4.2(0.12)	5.1(0.18)	6.9(0.20)	6.9(0.19)
50.00	4.4(0.14)	5.5(0.22)	7.3(0.24)	7.3(0.23)

Station 7 (43.90N , 82.52W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	3.8(0.07)	5.3(0.10)	5.6(0.09)	5.8(0.09)
5.00	4.1(0.10)	5.8(0.14)	6.0(0.13)	6.2(0.12)
10.00	4.3(0.12)	6.1(0.18)	6.3(0.16)	6.5(0.15)
20.00	4.6(0.14)	6.4(0.21)	6.6(0.19)	6.8(0.18)
50.00	4.8(0.17)	6.9(0.25)	7.0(0.23)	7.2(0.22)

Station 8 (44.05N , 82.52W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	4.0(0.06)	5.3(0.10)	5.6(0.09)	5.8(0.08)
5.00	4.3(0.09)	5.8(0.14)	5.9(0.13)	6.2(0.11)
10.00	4.5(0.11)	6.1(0.17)	6.2(0.15)	6.4(0.14)
20.00	4.7(0.13)	6.4(0.20)	6.5(0.18)	6.7(0.16)
50.00	5.0(0.15)	6.8(0.24)	6.9(0.22)	7.0(0.20)

Station 9 (44.05N , 82.71W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	4.1(0.08)	6.0(0.11)	5.6(0.10)	6.3(0.10)
5.00	4.4(0.11)	6.5(0.15)	6.0(0.13)	6.7(0.13)
10.00	4.7(0.14)	6.8(0.19)	6.3(0.16)	7.0(0.16)
20.00	4.9(0.16)	7.2(0.22)	6.6(0.19)	7.3(0.19)
50.00	5.3(0.20)	7.6(0.27)	7.0(0.23)	7.7(0.23)

Station 10 (44.05N , 83.12W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	6.9(0.12)	5.7(0.14)	3.5(0.06)	7.1(0.12)
5.00	7.5(0.17)	6.3(0.19)	3.7(0.09)	7.6(0.17)
10.00	7.9(0.21)	6.7(0.23)	3.9(0.10)	8.0(0.20)
20.00	8.3(0.25)	7.2(0.27)	4.1(0.12)	8.4(0.24)
50.00	8.8(0.30)	7.7(0.33)	4.4(0.15)	8.9(0.29)

Station 11 (44.05N , 83.32W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	7.0(0.14)	3.4(0.07)	3.2(0.06)	7.0(0.14)
5.00	7.7(0.20)	3.7(0.10)	3.4(0.08)	7.7(0.20)
10.00	8.1(0.24)	3.9(0.12)	3.6(0.10)	8.1(0.24)
20.00	8.6(0.28)	4.1(0.14)	3.8(0.12)	8.6(0.28)
50.00	9.1(0.34)	4.4(0.17)	4.0(0.14)	9.1(0.34)

Station 12 (44.18N , 83.32W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	3.6(0.07)	4.6(0.12)	7.1(0.14)	7.1(0.14)
5.00	3.9(0.09)	5.1(0.17)	7.7(0.19)	7.7(0.19)
10.00	4.1(0.11)	5.5(0.21)	8.2(0.24)	8.2(0.23)
20.00	4.3(0.14)	5.9(0.25)	8.6(0.28)	8.6(0.28)
50.00	4.6(0.16)	6.4(0.30)	9.2(0.34)	9.2(0.33)

Station 13 (44.33N , 83.12W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	4.6(0.08)	4.9(0.10)	6.9(0.12)	6.9(0.12)
5.00	4.9(0.10)	5.3(0.14)	7.4(0.17)	7.4(0.17)
10.00	5.2(0.13)	5.7(0.17)	7.8(0.21)	7.8(0.20)
20.00	5.4(0.15)	6.0(0.20)	8.2(0.24)	8.2(0.24)
50.00	5.7(0.18)	6.4(0.25)	8.7(0.29)	8.7(0.29)

Station 14 (44.48N , 83.12W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	4.7(0.08)	5.2(0.09)	6.7(0.12)	6.8(0.11)
5.00	5.1(0.12)	5.7(0.13)	7.3(0.17)	7.3(0.15)
10.00	5.4(0.14)	6.0(0.16)	7.7(0.21)	7.6(0.19)
20.00	5.7(0.17)	6.3(0.19)	8.1(0.25)	8.0(0.22)
50.00	6.0(0.20)	6.7(0.23)	8.6(0.30)	8.4(0.27)

Station 15 (44.63N , 83.12W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	5.1(0.10)	4.9(0.10)	6.2(0.11)	6.3(0.09)
5.00	5.5(0.14)	5.4(0.15)	6.7(0.15)	6.7(0.13)
10.00	5.8(0.17)	5.7(0.18)	7.1(0.19)	7.0(0.16)
20.00	6.1(0.20)	6.1(0.21)	7.4(0.22)	7.3(0.19)
50.00	6.5(0.24)	6.5(0.25)	7.9(0.27)	7.7(0.23)

Station 16 (44.77N , 83.12W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	5.0(0.10)	5.3(0.10)	5.6(0.11)	6.0(0.09)
5.00	5.5(0.14)	5.7(0.14)	6.1(0.15)	6.4(0.12)
10.00	5.8(0.17)	6.0(0.17)	6.4(0.18)	6.7(0.15)
20.00	6.1(0.20)	6.4(0.21)	6.8(0.21)	6.9(0.18)
50.00	6.5(0.24)	6.8(0.25)	7.2(0.26)	7.3(0.22)

Station 17 (44.92N , 83.12W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	5.2(0.09)	5.1(0.11)	4.5(0.09)	5.7(0.09)
5.00	5.6(0.13)	5.6(0.15)	4.8(0.12)	6.1(0.13)
10.00	5.9(0.16)	5.9(0.18)	5.1(0.15)	6.3(0.16)
20.00	6.2(0.19)	6.3(0.21)	5.4(0.18)	6.6(0.19)
50.00	6.6(0.22)	6.7(0.26)	5.8(0.22)	7.0(0.22)

Station 18 (45.07N , 83.12W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	4.8(0.09)	5.1(0.11)	4.8(0.11)	5.6(0.10)
5.00	5.2(0.13)	5.6(0.15)	5.3(0.15)	6.0(0.14)
10.00	5.5(0.15)	5.9(0.19)	5.6(0.18)	6.3(0.17)
20.00	5.8(0.18)	6.3(0.22)	5.9(0.21)	6.7(0.20)
50.00	6.2(0.22)	6.7(0.27)	6.4(0.26)	7.1(0.24)

Station 19 (45.20N , 83.12W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	5.1(0.09)	5.0(0.12)	5.0(0.09)	5.7(0.10)
5.00	5.5(0.12)	5.5(0.16)	5.4(0.13)	6.1(0.13)
10.00	5.8(0.15)	5.9(0.20)	5.7(0.16)	6.4(0.16)
20.00	6.0(0.17)	6.3(0.24)	5.9(0.18)	6.7(0.19)
50.00	6.4(0.21)	6.7(0.29)	6.3(0.22)	7.1(0.23)

Station 20 (45.35N , 83.32W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	5.2(0.11)	4.5(0.12)	4.5(0.08)	5.6(0.11)
5.00	5.7(0.15)	5.0(0.17)	4.8(0.11)	6.0(0.15)
10.00	6.0(0.19)	5.4(0.21)	5.1(0.13)	6.4(0.19)
20.00	6.4(0.22)	5.8(0.25)	5.3(0.16)	6.7(0.22)
50.00	6.8(0.26)	6.3(0.30)	5.7(0.19)	7.2(0.26)

Station 21 (45.50N , 83.52W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	5.3(0.11)	3.5(0.09)	4.1(0.07)	5.4(0.10)
5.00	5.8(0.15)	3.9(0.12)	4.4(0.10)	5.8(0.15)
10.00	6.2(0.19)	4.2(0.15)	4.6(0.12)	6.2(0.18)
20.00	6.5(0.22)	4.4(0.17)	4.8(0.14)	6.5(0.21)
50.00	7.0(0.27)	4.8(0.21)	5.1(0.17)	6.9(0.25)

Station 22 (45.50N , 83.72W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	5.4(0.13)	3.8(0.11)	4.1(0.07)	5.4(0.12)
5.00	5.9(0.18)	4.3(0.16)	4.4(0.10)	5.9(0.16)
10.00	6.3(0.21)	4.6(0.19)	4.6(0.12)	6.3(0.20)
20.00	6.7(0.25)	4.9(0.22)	4.8(0.14)	6.7(0.23)
50.00	7.3(0.31)	5.4(0.27)	5.1(0.17)	7.2(0.28)

Station 23 (45.63N , 83.90W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	4.1(0.08)	3.5(0.08)	3.5(0.05)	4.3(0.07)
5.00	4.4(0.11)	3.9(0.11)	3.8(0.08)	4.6(0.10)
10.00	4.7(0.13)	4.1(0.14)	4.0(0.09)	4.8(0.12)
20.00	4.9(0.16)	4.4(0.16)	4.1(0.11)	5.0(0.14)
50.00	5.2(0.19)	4.7(0.20)	4.3(0.13)	5.3(0.17)

Station 24 (45.63N , 84.10W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	4.4(0.09)	2.9(0.06)	2.6(0.04)	4.4(0.09)
5.00	4.8(0.12)	3.1(0.08)	2.8(0.05)	4.8(0.12)
10.00	5.1(0.15)	3.3(0.10)	2.9(0.06)	5.0(0.15)
20.00	5.3(0.18)	3.5(0.12)	3.0(0.08)	5.3(0.18)
50.00	5.7(0.22)	3.7(0.15)	3.2(0.09)	5.7(0.21)

Station 25 (45.78N , 84.10W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	2.8(0.04)	2.4(0.06)	4.3(0.07)	4.3(0.07)
5.00	3.0(0.05)	2.6(0.08)	4.6(0.10)	4.6(0.10)
10.00	3.1(0.07)	2.8(0.09)	4.9(0.13)	4.9(0.13)
20.00	3.2(0.08)	2.9(0.11)	5.1(0.15)	5.1(0.15)
50.00	3.4(0.09)	3.2(0.13)	5.4(0.18)	5.4(0.18)

Station 26 (45.78N , 83.90W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	3.2(0.05)	2.7(0.06)	4.5(0.08)	4.5(0.08)
5.00	3.4(0.07)	3.0(0.08)	4.8(0.11)	4.8(0.11)
10.00	3.6(0.09)	3.2(0.10)	5.1(0.13)	5.1(0.13)
20.00	3.8(0.11)	3.4(0.12)	5.3(0.15)	5.3(0.15)
50.00	4.0(0.13)	3.6(0.15)	5.7(0.19)	5.6(0.18)

Station 27 (45.78N , 83.72W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	3.5(0.05)	3.0(0.06)	4.3(0.07)	4.4(0.06)
5.00	3.7(0.07)	3.2(0.08)	4.6(0.09)	4.6(0.09)
10.00	3.9(0.09)	3.4(0.10)	4.8(0.11)	4.8(0.11)
20.00	4.0(0.10)	3.6(0.12)	5.0(0.13)	5.0(0.13)
50.00	4.2(0.12)	3.9(0.15)	5.3(0.16)	5.3(0.15)

Station 28 (45.78N , 83.52W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	4.0(0.06)	3.6(0.07)	4.3(0.08)	4.4(0.07)
5.00	4.2(0.08)	3.9(0.10)	4.6(0.12)	4.7(0.09)
10.00	4.4(0.10)	4.2(0.12)	4.9(0.14)	4.9(0.11)
20.00	4.6(0.12)	4.4(0.14)	5.2(0.17)	5.2(0.14)
50.00	4.8(0.14)	4.7(0.17)	5.5(0.20)	5.4(0.16)

Station 29 (45.63N , 83.32W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	4.3(0.06)	3.4(0.06)	4.6(0.08)	4.8(0.07)
5.00	4.6(0.09)	3.7(0.08)	4.9(0.11)	5.1(0.10)
10.00	4.8(0.11)	3.9(0.10)	5.2(0.14)	5.3(0.12)
20.00	5.0(0.13)	4.1(0.12)	5.4(0.16)	5.5(0.14)
50.00	5.3(0.16)	4.3(0.14)	5.8(0.20)	5.8(0.17)

Station 30 (45.63N , 83.12W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	4.8(0.07)	4.9(0.10)	5.0(0.10)	5.4(0.08)
5.00	5.2(0.10)	5.3(0.14)	5.4(0.13)	5.8(0.12)
10.00	5.4(0.12)	5.7(0.17)	5.7(0.16)	6.1(0.14)
20.00	5.6(0.15)	5.9(0.20)	6.0(0.19)	6.3(0.17)
50.00	5.9(0.18)	6.3(0.24)	6.4(0.23)	6.7(0.20)

Station 31 (45.50N , 82.92W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	4.7(0.07)	5.1(0.08)	5.3(0.11)	5.7(0.09)
5.00	5.0(0.10)	5.4(0.11)	5.8(0.15)	6.1(0.13)
10.00	5.2(0.12)	5.7(0.13)	6.1(0.19)	6.3(0.16)
20.00	5.5(0.14)	5.9(0.16)	6.4(0.22)	6.6(0.19)
50.00	5.7(0.17)	6.2(0.19)	6.9(0.27)	7.0(0.22)

Station 32 (45.63N , 82.71W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	4.3(0.12)	6.1(0.11)	5.1(0.12)	6.3(0.11)
5.00	4.8(0.16)	6.6(0.15)	5.6(0.17)	6.8(0.16)
10.00	5.1(0.20)	7.0(0.19)	6.0(0.21)	7.1(0.19)
20.00	5.5(0.23)	7.3(0.22)	6.3(0.25)	7.5(0.22)
50.00	5.9(0.28)	7.7(0.26)	6.8(0.30)	7.9(0.27)

Station 33 (45.63N , 82.52W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	3.8(0.07)	5.9(0.12)	6.6(0.12)	6.8(0.12)
5.00	4.1(0.10)	6.4(0.16)	7.1(0.17)	7.3(0.16)
10.00	4.3(0.12)	6.8(0.20)	7.5(0.21)	7.7(0.20)
20.00	4.6(0.14)	7.2(0.23)	7.9(0.25)	8.0(0.24)
50.00	4.8(0.17)	7.6(0.28)	8.4(0.30)	8.5(0.29)

Station 34 (45.50N , 82.32W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	5.7(0.10)	6.2(0.10)	5.9(0.14)	6.6(0.10)
5.00	6.1(0.13)	6.6(0.14)	6.5(0.20)	7.1(0.14)
10.00	6.4(0.16)	6.9(0.17)	7.0(0.25)	7.4(0.18)
20.00	6.7(0.19)	7.2(0.20)	7.4(0.29)	7.7(0.21)
50.00	7.1(0.23)	7.6(0.24)	8.0(0.35)	8.1(0.25)

Station 35 (45.50N , 82.12W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	5.9(0.10)	6.4(0.09)	5.3(0.17)	6.8(0.10)
5.00	6.3(0.14)	6.8(0.13)	6.0(0.24)	7.2(0.14)
10.00	6.6(0.17)	7.1(0.16)	6.6(0.29)	7.6(0.18)
20.00	6.9(0.20)	7.4(0.19)	7.1(0.34)	7.9(0.21)
50.00	7.3(0.24)	7.8(0.23)	7.8(0.41)	8.3(0.25)

Station 36 (45.35N , 81.93W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	5.5(0.10)	6.2(0.08)	6.0(0.15)	6.7(0.12)
5.00	6.0(0.14)	6.6(0.12)	6.6(0.21)	7.2(0.16)
10.00	6.3(0.18)	6.8(0.14)	7.0(0.25)	7.6(0.20)
20.00	6.6(0.21)	7.1(0.17)	7.5(0.30)	7.9(0.23)
50.00	7.1(0.25)	7.4(0.21)	8.1(0.36)	8.4(0.28)

Station 37 (45.20N , 81.93W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	5.4(0.09)	6.1(0.10)	6.1(0.14)	6.7(0.12)
5.00	5.8(0.13)	6.6(0.14)	6.7(0.20)	7.2(0.17)
10.00	6.1(0.16)	6.9(0.17)	7.1(0.24)	7.6(0.20)
20.00	6.4(0.19)	7.2(0.20)	7.6(0.28)	8.0(0.24)
50.00	6.8(0.23)	7.6(0.24)	8.1(0.34)	8.5(0.29)

Station 38 (45.07N , 81.72W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	5.6(0.10)	6.4(0.09)	5.9(0.16)	6.8(0.11)
5.00	6.0(0.13)	6.8(0.13)	6.6(0.23)	7.3(0.15)
10.00	6.3(0.16)	7.1(0.15)	7.1(0.28)	7.6(0.19)
20.00	6.6(0.19)	7.4(0.18)	7.6(0.33)	8.0(0.22)
50.00	7.0(0.23)	7.8(0.22)	8.2(0.39)	8.4(0.27)

Station 39 (44.92N , 81.53W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	6.0(0.11)	6.9(0.12)	5.7(0.13)	7.2(0.11)
5.00	6.5(0.15)	7.5(0.16)	6.3(0.19)	7.7(0.15)
10.00	6.8(0.18)	7.8(0.20)	6.7(0.23)	8.0(0.19)
20.00	7.1(0.22)	8.2(0.24)	7.1(0.27)	8.4(0.22)
50.00	7.6(0.26)	8.7(0.29)	7.7(0.33)	8.8(0.27)

Station 40 (44.77N , 81.53W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	6.1(0.10)	6.9(0.12)	5.8(0.12)	7.2(0.11)
5.00	6.5(0.14)	7.5(0.17)	6.4(0.17)	7.6(0.15)
10.00	6.8(0.17)	7.9(0.21)	6.8(0.21)	7.9(0.18)
20.00	7.1(0.20)	8.3(0.25)	7.2(0.25)	8.3(0.21)
50.00	7.5(0.24)	8.8(0.30)	7.7(0.30)	8.7(0.26)

Station 41 (44.63N , 81.53W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	4.3(0.11)	6.5(0.12)	6.8(0.11)	7.1(0.10)
5.00	4.8(0.15)	7.0(0.17)	7.3(0.15)	7.6(0.15)
10.00	5.1(0.18)	7.4(0.21)	7.7(0.19)	7.9(0.18)
20.00	5.5(0.22)	7.8(0.25)	8.0(0.22)	8.3(0.21)
50.00	5.9(0.26)	8.3(0.30)	8.5(0.27)	8.7(0.25)

Station 42 (44.48N , 81.53W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	4.3(0.10)	6.7(0.11)	6.7(0.12)	7.1(0.10)
5.00	4.7(0.14)	7.2(0.16)	7.2(0.16)	7.6(0.15)
10.00	5.0(0.17)	7.5(0.19)	7.6(0.20)	7.9(0.18)
20.00	5.3(0.20)	7.9(0.23)	7.9(0.24)	8.2(0.21)
50.00	5.7(0.24)	8.4(0.28)	8.4(0.28)	8.7(0.25)

Station 43 (44.33N , 81.72W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	4.9(0.10)	6.4(0.13)	5.9(0.09)	6.7(0.11)
5.00	5.3(0.14)	7.0(0.18)	6.3(0.13)	7.1(0.15)
10.00	5.6(0.16)	7.4(0.22)	6.6(0.16)	7.4(0.18)
20.00	5.9(0.20)	7.8(0.26)	6.9(0.19)	7.8(0.22)
50.00	6.3(0.24)	8.3(0.31)	7.3(0.22)	8.2(0.26)

Station 44 (44.18N , 81.72W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	4.8(0.09)	6.3(0.13)	5.7(0.10)	6.5(0.11)
5.00	5.2(0.13)	6.9(0.18)	6.1(0.14)	7.0(0.16)
10.00	5.5(0.16)	7.3(0.22)	6.4(0.17)	7.3(0.19)
20.00	5.8(0.19)	7.7(0.26)	6.7(0.20)	7.7(0.23)
50.00	6.2(0.23)	8.2(0.31)	7.2(0.24)	8.1(0.28)

Station 45 (44.05N , 81.93W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	5.6(0.10)	5.0(0.08)	5.4(0.10)	6.0(0.09)
5.00	6.1(0.14)	5.4(0.11)	5.8(0.14)	6.4(0.12)
10.00	6.4(0.17)	5.6(0.13)	6.2(0.17)	6.7(0.15)
20.00	6.7(0.20)	5.9(0.16)	6.5(0.21)	6.9(0.18)
50.00	7.1(0.24)	6.2(0.19)	6.9(0.25)	7.3(0.22)

Station 46 (43.90N , 81.93W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	5.7(0.10)	4.3(0.07)	5.2(0.10)	5.9(0.08)
5.00	6.1(0.13)	4.6(0.10)	5.6(0.14)	6.2(0.12)
10.00	6.4(0.16)	4.8(0.13)	5.9(0.17)	6.5(0.14)
20.00	6.7(0.19)	5.1(0.15)	6.2(0.20)	6.8(0.17)
50.00	7.1(0.23)	5.4(0.18)	6.7(0.25)	7.1(0.21)

Station 47 (43.75N , 81.93W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	5.8(0.10)	4.1(0.07)	4.7(0.09)	5.8(0.09)
5.00	6.2(0.14)	4.4(0.10)	5.1(0.13)	6.2(0.13)
10.00	6.6(0.17)	4.6(0.12)	5.3(0.16)	6.5(0.16)
20.00	6.9(0.20)	4.9(0.15)	5.6(0.18)	6.8(0.18)
50.00	7.3(0.24)	5.2(0.18)	6.0(0.22)	7.2(0.22)

Station 48 (43.62N , 81.93W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	6.0(0.11)	4.1(0.07)	4.5(0.09)	6.0(0.10)
5.00	6.5(0.15)	4.4(0.10)	4.9(0.13)	6.5(0.14)
10.00	6.8(0.18)	4.6(0.12)	5.2(0.16)	6.8(0.17)
20.00	7.2(0.22)	4.8(0.14)	5.5(0.19)	7.1(0.20)
50.00	7.6(0.26)	5.1(0.17)	5.8(0.23)	7.5(0.25)

Station 49 (43.47N , 81.93W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	6.2(0.11)	4.4(0.09)	4.4(0.09)	6.2(0.11)
5.00	6.7(0.16)	4.8(0.12)	4.8(0.12)	6.6(0.15)
10.00	7.0(0.19)	5.1(0.15)	5.1(0.15)	7.0(0.18)
20.00	7.4(0.23)	5.4(0.18)	5.4(0.18)	7.3(0.21)
50.00	7.8(0.28)	5.8(0.22)	5.7(0.22)	7.7(0.26)

Station 50 (43.33N , 81.93W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	5.4(0.14)	5.7(0.11)	4.4(0.08)	6.1(0.11)
5.00	6.0(0.20)	6.2(0.15)	4.7(0.11)	6.6(0.15)
10.00	6.5(0.24)	6.6(0.19)	5.0(0.14)	7.0(0.19)
20.00	6.9(0.29)	6.9(0.22)	5.3(0.16)	7.3(0.22)
50.00	7.5(0.35)	7.3(0.27)	5.6(0.20)	7.8(0.27)

Station 51 (43.18N , 82.12W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	6.1(0.13)	6.0(0.12)	4.0(0.06)	6.5(0.12)
5.00	6.7(0.18)	6.5(0.17)	4.3(0.09)	7.1(0.17)
10.00	7.1(0.21)	6.9(0.20)	4.5(0.11)	7.4(0.20)
20.00	7.5(0.25)	7.2(0.24)	4.7(0.13)	7.8(0.24)
50.00	8.0(0.31)	7.7(0.29)	4.9(0.15)	8.3(0.29)

Station 52 (43.75N , 82.12W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	5.7(0.09)	3.6(0.06)	4.6(0.09)	5.8(0.09)
5.00	6.1(0.13)	3.8(0.08)	5.0(0.13)	6.1(0.12)
10.00	6.4(0.16)	4.0(0.10)	5.3(0.15)	6.4(0.15)
20.00	6.7(0.19)	4.2(0.12)	5.6(0.18)	6.7(0.18)
50.00	7.1(0.22)	4.5(0.15)	5.9(0.22)	7.1(0.21)

Station 53 (44.18N , 82.32W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	4.9(0.07)	4.9(0.09)	5.4(0.08)	5.6(0.07)
5.00	5.2(0.10)	5.2(0.12)	5.7(0.11)	5.8(0.09)
10.00	5.4(0.12)	5.5(0.15)	6.0(0.14)	6.1(0.11)
20.00	5.7(0.14)	5.8(0.17)	6.3(0.16)	6.3(0.13)
50.00	6.0(0.17)	6.2(0.21)	6.6(0.19)	6.6(0.16)

Station 54 (44.77N , 82.32W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	5.6(0.10)	5.7(0.10)	5.7(0.10)	6.1(0.08)
5.00	6.0(0.14)	6.1(0.14)	6.1(0.14)	6.5(0.11)
10.00	6.3(0.17)	6.4(0.17)	6.4(0.17)	6.7(0.14)
20.00	6.6(0.20)	6.8(0.20)	6.8(0.20)	7.0(0.16)
50.00	7.0(0.24)	7.2(0.24)	7.2(0.24)	7.3(0.19)

Station 55 (45.20N , 82.71W)

Return Period (yr)	Angle Class			
	1	2	3	All
2.00	5.1(0.08)	4.2(0.10)	4.9(0.07)	5.4(0.08)
5.00	5.4(0.11)	4.7(0.14)	5.2(0.10)	5.8(0.11)
10.00	5.7(0.13)	5.0(0.18)	5.4(0.13)	6.0(0.14)
20.00	5.9(0.16)	5.3(0.21)	5.7(0.15)	6.3(0.16)
50.00	6.2(0.19)	5.7(0.25)	6.0(0.18)	6.6(0.20)